

The **ONE** Source

Serving the HVAC/R Industry
for **Over 100 Years**

Century of Innovation & A World of Experience

100
Years

BACHARACH
The Measurable Difference



Combustion Analyzers



Leak Detectors



A/C, Refrigeration & Maintenance



Monitors



Safety & Specialty Products

THE BACHARACH BLUEBOOK

2009 - 2010  **MADE IN THE USA**
FOR OVER 100 YEARS




A CENTURY OF INNOVATION




...And We're *Just* Getting Started!




THE ONE SOURCE

Established in 1909, Bacharach, Inc. is the world leader in the design, manufacture, and service of advanced equipment to measure and detect gases including instruments that detect, measure and record combustion, refrigerant and environmental gases, temperature, humidity and other air quality and safety parameters.

- The ONE Source serving the HVAC/R industry for:
 - Combustion analyzers
 - Leak detectors (combustible & refrigerant gases)
 - Continuous gas monitors
 - A/C and refrigerant recovery machines, maintenance tools and gauges
 - Safety and specialty products
- Products designed to aid in the installation and servicing of heating, air conditioning & refrigeration equipment
- Instruments designed for residential, commercial and industrial applications
- In-house product development and technical expertise
- Excellent customer support — training, customer service, repairs
- Made in the U.S.A. for over 100 years 

LOOK FOR THESE SYMBOLS

The capabilities needed for test and measurement instrumentation vary widely depending on the application and environment. To simplify your selection process, we have placed a symbol (,  and ) designating the most appropriate application use for the product;

-  – **Residential:** Homes, and apartments (furnaces, boilers, hot water heaters, air conditioners, and stoves)
-  – **Commercial:** Institutions, office buildings, food storage, and labs (boilers, chillers, refrigeration racks, and indoor air quality)
-  – **Industrial:** Manufacturing facilities, and utilities (health and safety monitoring, control processes, and emissions)



| | |
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NEW & IMPROVED

SERVICE YOU CAN COUNT ON

Factory Calibration, Sensor Replacement, and Repair Services are available and provide customers:

- Faster turnaround time
- Free return shipping
- Simplified flat rate pricing

A Return Material Authorization number (RMA#) is required for all service and repair. For additional information go to MyBacharach.com/support.htm or contact Customer Service at 1-800-736-4666, or help@MyBacharach.com

SERVICE LOCATIONS

Bacharach® Sales/Service Center

HEADQUARTERS:
621 Hunt Valley Circle
New Kensington, PA 15068
Toll Free: 800-736-4666
Ph: 724-334-5000
Fax: 724-334-5704
Email: help@MyBacharach.com

Bacharach® of Canada Sales/Service Center

20 Amber Street Unit #7
Markham, Ontario L3R 9W7
Canada
Ph: 905-470-8985
Fax: 905-470-8963
Toll Free in Canada: 800-328-5217
Email: bachcan@idirect.com

Bacharach® de México S.de R. L. de C.V. Sales/Service Center

Playa Regatas No. 473 Tercer Piso
Col. Militar Marte
Delegación Iztacalco, 08830
México D.F., México
Tel: +52-55-56-34-77-40/41
Fax: +52-55-56-34-77-38
Email: bacharach@prodigy.net.mx



BACHARACH'S FYRITE® FAMILY OF COMBUSTION ANALYZERS

For the most comprehensive full featured family of combustion analyzers, check out the Fyrite® combustion analyzer products. From simple to sophisticated and from basic to multi-use, Fyrite® products set the performance standard in their class. These instruments provide unique features that will meet the needs of contractors whatever the application.

B-SMART™ CO SENSORS FOR THE FYRITE® INSIGHT



B-Smart™ Carbon Monoxide (CO) Sensors are the newest addition to the Fyrite® Family, providing the customer some major advantages when using the Fyrite® INSIGHT. This technology allows the user to replace pre-calibrated sensors in the field, thus eliminating the need to send it in for calibration.

The B-Smart™ Sensor itself is only part of the equation, select the B-Smart™ Calibration program that is right for you... then let us worry about the details. Bacharach will automatically send you the calibrated sensor.

Sign up today, go to www.MyBacharach.com/bsmart

THE B-SMART™ ADVANTAGE

| Features | + | Advantages | = | Benefits |
|---|---|---|---|-------------|
| B-Smart™ factory-calibrated CO sensor sent right to your door | | No need to return your instrument for calibration | | No downtime |
| Plug and play sensors | | Install the CO sensor yourself | | Save time |
| Self calibration | | No field gas calibration | | Save money |



Combustion Analyzers

ECA 450



Unlike any other industrial grade combustion efficiency and environmental analyzer on the market today, the ECA 450 conducts accurate combustion and emissions tests to ensure that industrial equipment is burning efficiently and environmental regulations are being met.

- Industrial grade analyzer for both combustion efficiency and emissions analysis
- Generates and prints combustion efficiency and emissions reports
- Supports modular, field replaceable, sensors for O₂, NO, NO₂, SO₂, CO and HC
- Expandable in field - add or change sensors as your requirements change
- Ideal for sampling and monitoring furnaces, boilers and other industrial combustion equipment
- Comes standard in hard case, with 12" probe assembly and built-in printer

| MEASUREMENT | RANGE |
|--|--|
| Primary/Ambient Air Temperature | -4° to 999° F (-20 to 537 °C) |
| Stack Temperature | -4° to 2400° F (-20 to 1316 °C) |
| Draft / Differential | -27.7 to +27.7 in. of H ₂ O |
| Oxygen (O ₂) | 0.0 to 20.9% |
| Carbon Monoxide (CO) (H ₂ comp) | 0 to 4,000 ppm |
| Carbon Monoxide (CO) (High Range)* | 4,001 to 80,000 ppm |
| Nitric Oxide (NO)* | 0 to 3,500 ppm |
| Nitrogen Dioxide (NO ₂)* | 0 to 500 ppm |
| Sulfur Dioxide (SO ₂)* | 0 to 4,000 ppm |
| Combustible Gases (HC)* | 0 to 5.00% (application dependent) |

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #5, Oil #6, Bagasse

| CALCULATED RANGES | RANGE |
|---|-----------------------------|
| Combustion Efficiency | 0.1 to 100.0% |
| Excess Air | 0 to 250% |
| Carbon Dioxide (dry basis) | 0 to fuel dependent maximum |
| NO _x (NO _x = NO + NO ₂) | 0 to 4,000 ppm |
| NO _x referenced to % O ₂ | 0 to 17,000 ppm |
| CO referenced to % O ₂ | 0 to 99,999 ppm |
| NO referenced to % O ₂ | 0 to 14,900 ppm |
| NO ₂ referenced to % O ₂ | 0 to 2,100 ppm |
| SO ₂ referenced to % O ₂ | 0 to 17,000 ppm |

* Optional

Two pumps are included. The first pump supplies gas sample to the sensors. The second pump supplies fresh air to purge the low range CO sensor when CO levels exceed 4000 ppm. Probe includes a standard probe and hose assembly equipped with a water trap, particulate filter, probe stop, 15 feet of hose and 12-inch probe tube.

OTHER SPECIFICATIONS

| | |
|----------|---|
| Power | Universal AC adapter and an internal battery pack. Adapter will accept input voltages from 100 to 240V. Fully charged battery pack provides a minimum of 8 hrs of operation |
| Size | 13.5" H x 18.5" W x 9" D (34.3 cm x 47 cm x 22.9 cm) |
| Weight | 25 lbs (11.34 kg) |
| Memory | Stores over 1000 test records |
| Display | 160 x 160 (2.5 in. x 2.5 in.) Graphic Liquid Crystal Display |
| Warranty | 2 years |

ORDERING INFORMATION

| | |
|---------|---|
| 24-7221 | ECA 450 Base Unit (O ₂ , CO, Ts, Ta, DP) |
| 24-7222 | ECA 450 (O ₂ , CO, Ts, DP) S. European Model* (without power cord) |
| 24-7228 | ECA 450 (O ₂ , CO, Ts, Ta, DP) N. European Model* (without power cord) |
| 24-8400 | ECA 450 with NO / NO ₂ sensors and compact sample conditioner |
| 24-8401 | ECA 450 with NO, NO ₂ and SO ₂ sensors and compact sample conditioner |

OPTIONAL ACCESSORIES

| | |
|----------|---|
| 24-3024 | 24" Probe Assembly |
| 24-3025 | 36" Probe Assembly |
| 24-7224 | Compact Sample Conditioner/Probe |
| 24-3035 | 24" High Temperature Probe Assembly |
| 24-3036 | 36" High Temperature Probe Assembly |
| 24-3037 | 48" High Temperature Probe Assembly |
| 24-1124 | 20 Ft. Hose Extension with sample, draft and thermocouple lines |
| 24-1172 | Water Trap/Filter Assembly (for Probe Assemblies) |
| 07-1644 | Replacement Filters for Water Trap (pkg of 3) |
| 104-4027 | Serial Cable DB 9M to DB 9F |
| 24-0980 | Printer Paper (5 rolls) |

*European-based calculations



PCA® 2

The PCA®2 is a commercial and industrial handheld combustion instrument and the perfect tool for service technicians and boiler contractors who need to ensure safety, determine combustion efficiency and perform emissions testing.



- Capable of measuring up to 4 gases at one time with field replaceable sensors
- Measures O₂, stack temperature, primary/ambient temperature and pressure/draft
- Measures CO (hydrogen compensated) from 0–4,000 ppm
- Provides both CO measurement capability (for safety) and calculation of combustion efficiency
- Selectable fuels include natural gas, kerosene, propane, coal, #2, #4 and #6 fuel oil, wood, bagasse and digester gas
- Includes hard carrying case, rubber boot, 12" probe assembly, spare filters, 4 "AA" batteries, "smart" sensors (as ordered), USB cable and PC software

PCA® 2 with Reporting Package Kits

Combine the PCA®2 with the IrDA printer and you have the perfect Reporting Package tool. All reporting package kits contain all items included with the instrument, plus the IrDA printer, USB cable and software.

| MEASUREMENT RANGES | RANGE |
|---|---------------------------------|
| Primary/Ambient Air Temperature | –4° to 999° F (–20 to 537° C) |
| Stack Temperature | –4° to 2192° F (–20 to 1200° C) |
| Oxygen (O ₂) | 0.0 to 20.9% |
| Carbon Monoxide (CO) (H ₂ comp) | 0 to 4,000 ppm |
| Carbon Monoxide (CO) (High Range) | 4,001 to 20,000 ppm |
| Nitric Oxide | 0 to 3,000 ppm |
| Nitrogen Dioxide | 0 to 500 ppm |
| Sulfur Dioxide | 0 to 5,000 ppm |
| Draft / Differential Pressure | –72 to +72 INWC |
| CALCULATED RANGES | RANGE |
| Combustion Efficiency | 0.1 to 100% |
| Excess Air | 0 to 250% |
| Carbon Dioxide (dry basis) | 0 to fuel dependent maximum |
| NO _x (NO _x = NO + NO ₂) | 0 to 3,500 ppm |
| NO _x referenced to % O ₂ | 0 to 9,999 ppm |
| CO referenced to % O ₂ | 0 to 9,999 ppm |
| NO referenced to % O ₂ | 0 to 9,999 ppm |
| NO ₂ referenced to % O ₂ | 0 to 9,999 ppm |
| SO ₂ referenced to % O ₂ | 0 to 9,999 ppm |

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood Kerosene, Oil #2, Oil #4, Oil #6, Bagasse and Digester Gas

OTHER SPECIFICATIONS

| | |
|---------------|--|
| Power | Four disposable AA alkaline batteries or NiMH rechargeable batteries providing 10 hours of continuous operation. Optional AC Power Adapter |
| Size | 9"H x 3"W x 2.5"D (22.9 cm x 7.6 cm x 6.3 cm) |
| Weight | 1.4 lbs (0.6 kg) |
| Memory | 500 complete combustion test records |
| Logged Memory | 500 complete logged combustion test records |
| Display | 160 x 160 (2.5 in x 2.5 in.) Graphic Liquid Crystal Display |
| Warranty | 2 years |

ORDERING INFORMATION

| N.A.M P/N* | EU P/N** | DESCRIPTION |
|------------|----------|--|
| 24-8350 | 24-8357 | PCA®2 225 (O ₂ , CO) |
| 24-8351 | 24-8358 | PCA®2 235 (O ₂ , CO, NO) |
| 24-8352 | 24-8360 | PCA®2 245 (O ₂ , CO, CO high) |
| 24-8353 | 24-8361 | PCA®2 255 (O ₂ , CO, SO ₂) |
| 24-8354 | 24-8362 | PCA®2 265 (O ₂ , CO, NO, NO ₂) |
| 24-8355 | 24-8363 | PCA®2 275 (O ₂ , CO, NO, SO ₂) |
| 24-8356 | 24-8364 | PCA®2 285 (O ₂ , CO, NO, CO high) |
| 24-8370 | 24-8377 | PCA®2 225 Kit (O ₂ , CO, printer) |
| 24-8371 | 24-8378 | PCA®2 235 Kit (O ₂ , CO, NO, printer) |
| 24-8372 | 24-8380 | PCA®2 245 Kit (O ₂ , CO, CO high, printer) |
| 24-8373 | 24-8381 | PCA®2 255 Kit (O ₂ , CO, SO ₂ , printer) |
| 24-8374 | 24-8382 | PCA®2 265 Kit (O ₂ , CO, NO, NO ₂ , printer) |
| 24-8375 | 24-8383 | PCA®2 275 Kit (O ₂ , CO, NO, SO ₂ , printer) |
| 24-8376 | 24-8384 | PCA®2 285 Kit (O ₂ , CO, NO, CO high, printer) |

OPTIONAL ACCESSORIES

| | |
|----------|---|
| 24-1400 | IrDA Printer w/ Disposable Batteries |
| 24-1404 | Universal AC Power Adapter |
| 24-7224 | Compact Sample Conditioner/Probe |
| 24-3004 | Probe Assembly |
| 24-3037 | Probe Stop |
| 24-1124 | 20 Ft. Hose Extension with sample, draft and thermocouple lines |
| 104-1797 | Thermocouple 10 ft (combustion air temp.) |
| 104-1798 | Thermocouple 1in (ambient air temp) |

*U.S.-based calculations

** European-based calculations



Combustion Analyzers

NEW

Fyrite® INSIGHT



The Fyrite® INSIGHT is the newest Bacharach Combustion Analyzer that redefines what a combustion analyzer should be. This lightweight, hand-held analyzer is five tools in one. An INSIGHT will:

- Perform combustion efficiency testing for 8 different fuels
- Test CO ambient conditions
- Measure CO in flue and calculate CO air free
- Serve as a dual channel digital thermometer (Up to 999°F)
- Function as a digital manometer (draft, gas pressure, ESP, up to 100 INWC)

INSIGHT employs Bacharach's new B-Smart™ CO Sensor technology that eliminates the need to send in the instrument for calibration, saving the user time and most importantly: money.

Other major features include user diagnostics, LCD and PC-based software for information and communication needs.

- Five Tools in ONE!
- Self calibration and easy access to sensors
- User diagnostics
- O₂ sensor life indication
- Calibration reminders
- Graphic LCD display
- Customize with your company logo
- Includes hard carrying case, rubber boot, probe, 4 "AA" batteries and instructional DVD

Fyrite® INSIGHT Reporting Package Kit

The INSIGHT Reporting Package Kits contains all items included with the instrument, plus the IrDA printer, USB cable and software. It's a perfect tool for contractors.

B-Smart™ Carbon Monoxide (CO) Sensors are the newest addition to the Fyrite® Family, providing the customer some major advantages when using the Fyrite® INSIGHT. This technology allows the user to replace pre-calibrated sensors in the field, thus eliminating the need to send it in for calibration.

The B-Smart™ Sensor itself is only part of the equation, select the B-Smart™ Calibration program that is right for you... then let us worry about the details. Bacharach will automatically send you the calibrated sensor. For more information go to www.MyBacharach.com/bsmart.



| MEASUREMENT RANGES | RANGE |
|--|---|
| Combustion Air/Ambient Air Temperature | -4 to 600°F (-20 to 316°C) |
| Flue Gas Temperature | -4 to 1200°F (-20 to 649°C) |
| Oxygen (O ₂) | 0.0 to 20.9% |
| Carbon Monoxide (CO) | 0 to 2,000 ppm |
| Draft / Differential Pressure | -100 to +100 INWC |
| CALCULATED RANGES | RANGE |
| Combustion Efficiency | 0.1 to 100% |
| Carbon Dioxide | 0.1 to a fuel dependent max. value in percent |
| Carbon Monoxide (air free) | 0 to 9,999 ppm |
| Excess Air | 0 to 250% |

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #6

OTHER SPECIFICATIONS

| | |
|--------------|--|
| Power | Four disposable AA alkaline batteries (included) |
| Battery Life | Minimum of 20 hours, typical |
| Size | 8.0"H x 3.6"W x 2.3"D |
| Weight | 16 oz. with batteries |
| Warranty | 2 years (including sensors) |

ORDERING INFORMATION

| | |
|---------|---------------------------------------|
| 24-8250 | Fyrite® INSIGHT |
| 24-8252 | Fyrite® INSIGHT - European Model* |
| 24-8251 | Fyrite® INSIGHT w/ Reporting Pkg Kit |
| 24-8253 | Fyrite® INSIGHT Kit - European Model* |

OPTIONAL ACCESSORIES

| | |
|----------|--|
| 24-1400 | IrDA Printer w/ Disposable Batteries |
| 24-1254 | Universal AC Power Adapter |
| 104-1797 | Thermocouple 10 ft (combustion at temp.) |
| 104-1798 | Thermocouple 1in (ambient air temp) |
| 24-8242 | Differential Pressure & Temperature Kit |
| 24-1505 | Optional NOx Filter |

*European-based calculations



Fyrite® Tech

Based on the same technology as the Fyrite® commercial units, the Fyrite® Tech is an affordable residential combustion analyzer that reduces service call time by providing accurate, electronic test results instantly. The Fyrite® Tech analyzers are easy to use: simply turn the unit on, select the fuel type (natural gas, oil, propane and kerosene), and insert the probe. It's that easy.



- Quick payback - The Fyrite® Tech reduces service call time by providing accurate, electronic test results instantly.
- Accurate operation - Tactile feedback from the instrument's keypad assures that the appropriate key has been pressed.
- Ergonomically designed - The instrument is lightweight and fits in the palm of your hand, making it easy to handle.
- Long battery life - Four alkaline batteries typically offer up to 18 hours of continuous operation with an automatic "power off" feature that saves energy.
- Purchase protection - Our two-year warranty on each analyzer and its sensors ensures worry-free operation.
- Measures O₂ (0-20.9%) and CO (0-2,000 ppm), stack temperature (0 to 999°F) and ambient temperature (32 to 212°F)
- Calculates combustion efficiency, excess air, CO₂ and CO air free
- Includes soft carrying case, 4 "AA" batteries and probe

Fyrite® Tech Kit

- Includes hard carrying case, rubber boot, with or without IrDA printer

| MEASUREMENT RANGES | RANGE |
|--|--|
| Ambient Air Temperature | 32 to 212°F (0 to 100°C) |
| Flue Gas Temperature | 0 to 999°F (-18 to 537°C) |
| Oxygen (O ₂) | 0.0 to 20.9% |
| Carbon Monoxide (CO) | 0 to 2,000 ppm |
| CALCULATED RANGES | RANGE |
| Combustion Efficiency | 0.1 to 99.9% |
| Carbon Dioxide (CO ₂) | 0.1 to a fuel dependent max. value in percent |
| Carbon Monoxide (air free) | 0 to 9,999 ppm |
| Excess Air | 0 to 400% |
| SELECTABLE FUELS | |
| Natural Gas (F1), Oil #2 (F2), Propane (F3), Kerosene (F4) | |
| OTHER SPECIFICATIONS | |
| Power | Four disposable AA alkaline batteries (included) |
| Battery Life | Up to 18 hours of continuous runtime, typical |
| Size | 7.5"H x 3.1"W x 2.1"D |
| Weight | 16 oz. with batteries |
| Warranty | 2 years (including sensors) |

ORDERING INFORMATION

| | |
|---------|------------------------------------|
| 24-8217 | Fyrite® Tech 60 |
| 24-8266 | Fyrite® Tech 60 European Model* |
| 24-8226 | Fyrite® Tech 60 Kit (no printer) |
| 24-8326 | Fyrite® Tech 60 Kit (with printer) |

OPTIONAL ACCESSORIES

| | |
|---------|--|
| 24-1127 | Protective Boot with Magnet |
| 24-0865 | Hard Carrying Case |
| 19-7111 | Angled Probe & Hose Assembly w/sample & thermocouple lines |
| 19-3265 | Water Trap/ Filter Assembly (for Probe Assembly) |
| 07-1644 | Replacement Filters for Water Trap (package of 3) |
| 24-7059 | Calibration Kit (regulator and tubing only) |
| 51-1994 | Calibration Gas (100 ppm CO) |

*European based calculations



Combustion Analyzers



Fyrite® Classic



The Fyrite® Classic series includes fast, easy to use instruments for measuring carbon dioxide or oxygen. The units, while looking very similar, differ in construction and absorbing fluid. Each model is suitable for only the particular gas and measurement range for which it was manufactured. Accuracy of all Fyrite® Classic products is $\pm 0.5\%$.

KEY FYRITE® CLASSIC FEATURES INCLUDE:

- Broad measurement range
- Capable of being exposed to ambient temperatures from -30 to +150°F
- Withstands measurement gas temperatures up to 850°F



| PART NUMBER | MEASUREMENT CAPABILITIES | | APPLICATIONS |
|-------------|--------------------------|----------------|---|
| | CO ₂ | O ₂ | |
| 10-5000 | 0-20% | NA | Incubator applications, flue gas combustion tests and CO ₂ tests of heat treating atmospheres |
| 10-5001* | | | |
| 10-5020 | 0-20% | 0-21% | All of the applications above plus; oxygen deficiency testing, O ₂ concentrations in hydrogen cooled generators and oil sealed inert gas transformers |
| 10-5021* | | | |
| 10-5053 | 0-7.6% | NA | CO ₂ determination in flammable gases and to check for inertness of atmosphere in silos, fuel tanks, and similar locations |
| 10-5083* | | | |
| 10-5011 | NA | 0-21% | Oxygen deficiency testing, O ₂ concentrations in hydrogen cooled generators and oil sealed inert gas transformers |
| 10-5012* | | | |
| 10-5032 | 0-60% | NA | Checking CO ₂ in inert gas blankets in tankers and barges transporting combustibles; Checking CO ₂ in lime kilns and sewage plant digesters |
| 10-5033* | | | |

Fyrite® Classic Oil Kit

| | | | |
|----------|-----|----|--|
| 10-5022 | 20% | NA | Includes: CO ₂ indicator, True Spot Smoke Tester, Oil Burner Smoke Scale, Fire Efficiency Finder, Tempoint Dial Thermometer, MZF Draft Gauge and hard carrying case |
| 10-5150* | | | |

* Export Kit (shipped without fluid)

OPTIONAL ACCESSORIES

| | |
|---------|--|
| 10-5057 | Refill fluid CO ₂ (20% & 60%) – 3 bottles |
| 10-5100 | Refill fluid CO ₂ (7%) – 3 bottles |
| 10-5060 | Refill fluid O ₂ (21% & 60%) – 3 bottles |
| 10-5103 | Refill fluid O ₂ (7%) – 3 bottles |

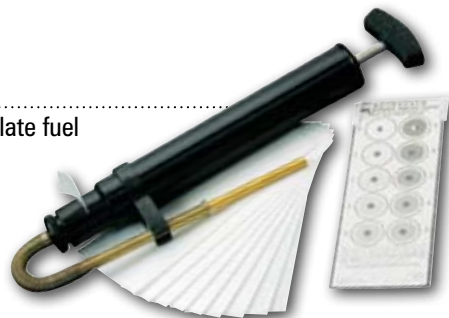


Combustion Tools

True Spot® Smoke Test Kit

21-7006

- Evaluates smoke density in the flue gases from distillate fuel
- Accurate smoke readings take less than a minute
- Standard in the industry



Tempoint

12-7014

- 6 in., 200°F to 1,000°F

12-7018

- 12 in., 200°F to 1,000°F

Draftrite® Pocket Gauge

13-3000

- This pocket size draft instrument is suitable for checking flue pipe, chimneys, smoke hoods and oil burner firing rates



MZF Draft Gauge

13-7019

- Measurement range of +0.05 to 0 to -0.025 INWC
- Requires no liquids or leveling
- Ideal for use in applications such as residential, commercial and industrial heating plants and for furnace draft pressure drop across filters
- Supplied with 5" draft tube and 9' of rubber tubing

Portable Manometer

17-7002

A valuable instrument for measuring and adjusting the inlet and manifold pressure for gas heating equipment and appliances.

- The Bacharach Manometer is designed for accuracy, readability, and portability
- Also used to determine filter resistance, fan efficiency, air velocity, and static pressures
- Measurement range 0-15 INWC and 0-38 CMWC





BACHARACH'S LEAK DETECTOR FAMILY OF PRODUCTS

Bacharach manufactures a complete line of leak detectors for combustible and refrigerant gases and one universal leak detector, the Informant® 2, that measures both types. Bacharach handheld portable units offer a wide range of visual and audible indicators, fast warm up and long battery life. Models are also available that are certified intrinsically safe for use in Class I, Division 1 Groups A,B, C and D hazardous locations. Designed for sensitivity and fast response, there is a Bacharach unit available to meet most any leak detection requirement.



Leak Detectors



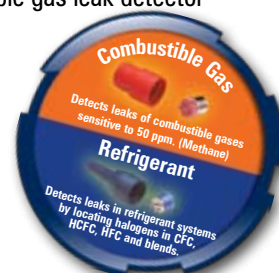
Informant® 2



The Informant® 2 is the only universal leak detector that can detect both combustible and refrigerant gases and is perfect for residential and commercial heating and cooling contractors.

The Bacharach Advantage:

- One-of-a-kind dual purpose refrigerant and combustible gas leak detector
- Automatically leads you directly to leak source
- Can swap sensor tips within seconds
- Sensitivity levels are automatically adjusted
- Refrigerant sensor tip is finely tapered to gain access to hard to reach areas



Informant® 2 Contractor Kit

- Instrument comes with refrigerant and combustible gas sensors, color-coded probe tips, instruction manual, protective rubber boot, 4"AA" batteries, 5 filters and hard carrying case



Informant® 2 Deluxe Kits

- Refrigerant and combustible leak detector
- Includes refrigerant and combustion sensors, color-coded probe tips, protective rubber boot, flashlight, 6"AA" batteries, 5 filters and hard carrying case

SENSING TECHNOLOGY

| | |
|--------------------|--|
| Refrigerant Sensor | Heated Diode - U.S. Patent No. 5,932,176 |
| Combustible Sensor | Patented semiconductor type. Five year typical life. Plug-in replacement |

GASES DETECTED

| | |
|-------------------|---|
| Refrigerants | All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123, R-134a and blends R-404A, R-408A, R-409A and R-410A (i.e., any refrigerant containing Chlorine, Fluorine or Bromine gas) |
| Combustible Gases | All combustible gases and vapors 0 to 400% |

RESPONSE TIME

| | |
|------------------------------------|---------------|
| Refrigerants and Combustible Gases | Instantaneous |
|------------------------------------|---------------|

ALARM SENSITIVITY

| | |
|-------------------|--|
| Refrigerants | Less than 0.25 oz/yr of R-134a (hardest to detect refrigerant) |
| Combustible Gases | Minimum 50ppm (Methane) |

ALARM TYPES

| |
|---|
| Audible, dual visual LED's and flashing probe tip |
|---|

OTHER SPECIFICATIONS

| | |
|--------------|--|
| Power | Four disposable AA alkaline batteries (included) |
| Battery Life | 4-5 hours, under typical intermittent operation |
| Size | 1.75"W x 9.6"L x 2.25"H (4.45 cm x 24.4 cm x 5.7 cm) |
| Weight | 0.86 lbs. (0.39 kg) with batteries |
| Warranty | One year, including sensors |

CERTIFICATIONS

| | |
|-------------------|---|
| Refrigerants | SAE J1627; EN14624 (pending); CE Mark |
| Combustible Gases | UL 913, intrinsically safe for use in Class 1, Division 1, Group D hazardous areas; CE Mark |

ORDERING INFORMATION

| | |
|---------|--|
| 19-8038 | Informant® 2 Contractor Kit |
| 19-8045 | Informant® 2 Dual Sensor Deluxe Kit |
| 19-8040 | Informant® 2 Refrigerant-only Kit |
| 19-8043 | Informant® 2 Refrigerant-only Deluxe Kit |
| 19-8041 | Informant® 2 Combustible Gas-only Kit |
| 19-8044 | Informant® 2 Combustible Gas-only Deluxe Kit |

OPTIONAL ACCESSORIES

| | |
|---------|---|
| 19-8037 | Deluxe Upgrade Kit (upgrade regular kits with rubber boot, flashlight, 2 "AA" batteries and hard carrying case) |
| 19-0509 | Replacement Filters (pkg of 5) |
| 06-9457 | MagLite® Flashlight |



Leakator® 10

19-7051

- Combustible gas leak detector
- Includes carrying case, gas sensor, flexible probe and instruction manual
- Visual 10 LED display
- Audible tick rate indicator
- Rapid 10 second warm time
- Adjustable sensitivity
- 30 hour battery life
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

19-7063

- Leakator® 10 ETO for detection of Ethylene Oxide



OPTIONAL ACCESSORIES

51-2529 Optional Earphone



19-7075

- Combustible gas detector
- Includes sensor, soft case and batteries
- Visual On/Off LED display
- Audible tick rate indication
- Quick, 60 second warm up time
- Dual level sensitivity settings (20 and 50 ppm)
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

Leakator® Jr.



Tru Pointe®

19-8106

- Refrigerant gas leak detector at an affordable price for the budget conscious customer
- Instantly responsive to all refrigerants
- Includes hard carrying case and batteries
- Audible and visual alarms
- 10 second warm up
- SAE J1627; EN14624 (pending); CE-Mark





Leak Detectors



H-10G



3015-0456

- Refrigerant leak detector with automatic and manual adjustment
- Detects all CFC, HFC and HCFC refrigerants
- AC powered
- Performance exceeds SAE J1627
- Supplied with leak reference bottle, probe tip and filter kit



H-10PM

3015-0627

- Refrigerant leak detector with dual power source that detects all CFC, HFC and HCFC
- Manual or automatic zero balance control
- Pass / fail test mode
- Unique sensor calibration system
- 3 sensitivity modes
- Powered by a rechargeable battery
- Pinpoints both small and large leaks



| H-10PM | | H-10G |
|----------------------|---|--|
| SENSING TECHNOLOGY | | |
| Refrigerant Sensor | Positive Ion Emission Heated Diode | |
| GASES DETECTED | | |
| Refrigerants | All CFC, HCFC and HFC refrigerants | |
| RESPONSE TIME | | |
| | 1 second | |
| ALARM SENSITIVITY | | |
| R-134a | Small - 0.1 oz / year Medium - 0.5 oz / year Large - 2.0 oz / year | |
| R12 | Small - 0.05 oz / year Medium - 0.1 oz / year Large - 1.0 oz / year | |
| Accuracy | Exceeds SAE J1627 | |
| LEAK ALARM | | |
| Audible and visual | Audible alarm and visible neon lamp | |
| OTHER SPECIFICATIONS | | |
| Power | 12 VDC - internal rechargeable | 120 VAC 50/60 Hz sealed lead acid battery |
| | 12 VDC - external battery using battery clamp /cigarette lighter plug | Optional 220/230 VAC or 240 VAC |
| | 120-240 VAC - wall adapter to charge battery only | |
| | 120 VAC optional wall adapter to charge-and-run unit continuously | |
| Size | 5.5" x 10.5" x 8.5" (14 x 26.67 x 21.6 cm) | 2.5" x 4.5" x 8.5" (6.35 x 11.43 x 21.6 cm) |
| Weight | 5 lbs. (2.27 kg) | 3 lbs. (1.36 kg) |
| Probe Length | 4.5 ft (1.37 m) | |
| CERTIFICATIONS | | |

ORDERING INFORMATION

3015-0627 H10PM All-In-One Leak Detector
3015-0456 H10G Standard Leak Detector

OPTIONAL ACCESSORIES

3015-0119 Battery Charger (for H10-PM)
3015-0131 H10G AC Adapter (120V)
3015-0143 H10G AC Adapter (220V/230V)
3015-0147 H10G AC Adapter (240V)
3015-0103 Battery for H10PM
3015-0326 14" Flexible Probe
3015-0638 Standard Probe Assembly
3015-0864 Leak Reference Bottle
3015-0641 Clear Probe Tip
3015-0781 Tune-Up Kit
3015-0680 Rubber Probe Tip



H25-IR



The H25-IR is an industrial-grade leak detection and measurement system. This instrument will locate, pinpoint and quantify the leak. Once a leak has been located it can be measured and the measured values can be logged and totaled for the entire system. This capability allows the user to ensure environmental or quality assurance compliance. This product can measure most refrigerant gases (over 40 in current library) as well as R-600a and SF6, which can be displayed in terms of leak rate (oz/yr, g/yr, mL/s, PaM3/s) or concentration (ppm). The long-life infrared sensor and high sensitivity make the H25-IR the smart choice for the most demanding leak detection and measurement applications.



Faster response time

- Infrared (IR) detection technology ensures long sensor life and high accuracy
- IR sensor is tuned specifically to target gas minimizes false alarms
- Internal leak source enables calibrations to be made quickly and easily
- Detects leaks as small as 0.03 oz/yr

ORDERING INFORMATION

| | |
|-----------|---|
| 3015-5291 | Refrigerants - Includes Smart Probe with 6' hose |
| 3015-5292 | Refrigerants - Includes Smart Probe with 12' hose |
| 3015-5295 | R600a - Includes Smart Probe with 6' hose |
| 3015-5296 | R600a - Includes Smart Probe with 12' hose |
| 3015-5299 | SF6 - Includes Smart Probe with 6' hose |
| 3015-5300 | SF6 - Includes Smart Probe with 12' hose |

* Additional models available that include a standard probe with LED and button

SENSING TECHNOLOGY

Non-Dispersive Infrared (NDIR)

GASES DETECTED

Refrigerants

CFC, HFC, and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R-236FA, R-245FA, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-500, R-502, R-503, R-507, R-508B, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230

Isobutane

R-600a

Other

Sulfur hexafluoride (SF6), Carbon Dioxide (CO2) (pending)

RESPONSE TIME

With 6' probe hose attached 1 second

MEASUREMENT

Units oz/yr, g/yr, mL/s, PaM3/s, ppm

Range 0.03 - 5.00 oz/yr

Sensitivity 0.03 oz/yr

WARM UP TIME

2 minutes

OPERATING MODES

Search Detects presence and location of gas

leaks

Measure Calculates and displays leak rate

OTHER SPECIFICATIONS

Power 100 to 240 VAC, 50/60 Hz (Option: 16 VDC Battery-Powered)

OPERATING TEMPERATURE RANGE

Storage Temperature Range 32 to 122°F (0 to 50°C)

Operating Humidity Range 5 to 90% RH, non-condensing

Size 4" H x 10.75" W x 15" D

(10.2 cm x 27.3 cm x 38.1 cm)

Weight 18 lbs. (8.2 kg)

Probe Length Smart Probe, 6 foot Hose

Smart Probe, 12 foot Hose

Warranty Two year full warranty on instrument



Leak Detectors

Leak Detector Family of Products

Informant® 2

Leakator® 10

Leakator® Jr. Tru Pointe®

H-10G

H-10PM

H25-IR



WHAT THEY DETECT

Combustible Gas Leak Detection

✓

✓

✓

✓

✓

✓

Refrigerant Leak Detection

✓

✓

✓

Specialty Gas Leak Detection

✓

SENSITIVITY

Refrigerant (oz/year of R134a)

0.25

0.1

0.1

0.1

0.03

(0.05 for R12)

(0.05 for R12)

Combustibles (ppm Methane)

50

20

20

2

3

3

Sensitivity Modes

Auto

Manual

2

2

3

3

Response Time

Instantaneous

Instantaneous

<3 sec to fs

Instantaneous

1 sec

1 sec

0.5 - 1 sec

WHAT THEY FEATURE

Automatic Calibration and Zero Out Function

✓

✓

✓

✓

Replaceable Sensors

✓

✓

✓

✓

✓

Infrared

Warm Up Time (approx. in seconds)

10

10

60

10

120

120

Audible Alarm

✓

✓

✓

✓

✓

Mute Option

✓

✓

✓

✓

✓

Adj. Volume

Visual Alarm

✓

✓

✓

✓

✓

Hard Shell Case

✓

✓

✓

Self-

contained

Self-

contained

Warranty

1-Year

1-Year

1-Year

1-Year

5-Year Lim.

5-Year Lim.

5-Year Lim.

POWER SOURCE

Battery Life (typical in hours)

5

30

14

15

3

8

Low Battery Indication

✓

✓

✓

✓

✓

Power Supply/Batteries

4 AA cell
alkaline

5 C cell
alkaline

4 AA cell
alkaline

2 D cell
alkaline

120 VAC

12 VDC
(internal &
external
120VAC)

100 - 240
VAC

CERTIFICATIONS

UL 913 Intrinsically Safe Class I, Div. 1, Group D

✓

✓

✓

✓

✓

CE Mark

✓

✓

✓

✓

✓

SAE J 1627

EN14624

(pending)

(pending)

(pending)

(pending)



A/C, REFRIGERATION AND MAINTENANCE FAMILY OF PRODUCTS

Bacharach offers a complete line of rugged and durable refrigerant recovery machines designed for portability. These units simplify and speed up the recovery of most common refrigerants and are available to meet the requirements of residential, commercial and industrial work environments. In addition, Bacharach offers an A/C refrigeration and maintenance group of products to do the job, including vacuum pumps, scales, manifolds, and swaging and cutting kits.



A/C, Refrigeration & Maintenance








StingerTM



The Stinger is one of the highest quality refrigerant recovery units on the market. Its powerful compressor will pump refrigerants at a quick pace while preventing pollutants from escaping into the environment. This A/C refrigerant recovery unit has been designed with R410A in mind in addition to other refrigerants, and is perfect for residential and light commercial contractors.

The Bacharach Advantage:

-  Vacuum shut off allowing for unattended recovery operation
-  Easy to read low vacuum/tank full LED
-  Carrying strap
-  Improved packaging protects knobs and gauges
-  Larger compressor provides better heat dissipation on hot days, IMPORTANT for R-410A
- High torque motor on compressor handles higher pressures under load
- One year over the counter warranty
- Handles almost all refrigerants
- Labeling on rear of unit with directions for proper connection
- Lightweight and compact

REFRIGERANT RECOVERY CAPABILITY

| | |
|--------------|--|
| Refrigerants | R-12, R-22, R-114, R134a, R-401A, R-401B, R-401C, R-402A, R-402B, R-404A, R-406A, R-407A, R-407B, R-407C, R-407D, R-408A, R-409A, R-410A, R-411A, R-411B, R-412A, R-500A, R-502B, R-507, R-509 |
|--------------|--|

RECOVERY RATES (ARI CERTIFIED)

| | |
|--------------------|---|
| Refrigerant R-22 | Vapor Recovery Rate: 0.29lbs./min. (0.13kg/min.) Liquid Recovery Rate: 3.53lbs./min. (1.60 kg/min.) Liquid Push / Pull: 12.28lbs./min. (5.58 kg/min.) |
| Refrigerant R-134a | Vapor Recovery Rate: 0.22lbs./min. (0.10 kg/min.) Liquid Recovery Rate: 2.66lbs./min. (1.21 kg/min.) Liquid Push / Pull: 10.96 lbs./min. (4.98 kg/min.) |
| Refrigerant 410a | Vapor Recovery Rate: 0.22lbs./min. (0.10 kg/min.) Liquid Recovery Rate: 3.00lbs./min. (1.37 kg/min.) Liquid Push / Pull: 14.58lbs./min. (6.63 kg/min.) |

VACUUM SPECIFICATIONS

| | |
|---------------------|----------------------------------|
| Compressor Type | 0.8 HP High Performance Oil-less |
| Vacuum Rating | 15" Hg+ |
| High Pressure Limit | 550 PSI (37.9 bar) |

OTHER SPECIFICATIONS

| | |
|--------------|--|
| Power Source | 110/120 VAC, 1 Phase, 50/60 Hz, 8 Amps 220-230 VAC, 1 Phase, 50/60 Hz, 4 Amps |
| Weight | 24 lbs. (11 kg) |
| Warranty | One year, over-the-counter |

ORDERING INFORMATION

| | |
|-----------|---|
| 2006-3800 | Stinger Domestic 120V |
| 2006-3801 | Stinger Domestic 120V w/ 80% Shut-Off Kit |
| 2006-3807 | Stinger European 230V |
| 2090-0091 | Optional 80% Shut-Off Kit |



FM3600 / FM3700

For commercial refrigerant recovery applications, the rugged FM3600 and FM3700 are high performance machines with twice the capacity and faster recovery than competitive units. With 0.5 hp (FM3600) or 1.0 hp (FM3700) oil-less proprietary high performance compressors, these workhorses recover vapors and liquids at unsurpassed ARI performance certified rates.



- Recovers ALL commonly used, refrigerants including R-410A (Puron™)
- 550 PSI high pressure cut-off, high pressure gauges
- LED system status display
- Rugged and reliable
- Automatic shut-off when evacuation is complete
- Self purge and vacuum shut-off
- Hi-low compressor head and valves
- Simple operation / purges clean
- Contains integrated sight glass
- 3/8" ports for faster, high-volume refrigerant recovery



| FM3600 | | FM3700 |
|---------------------------------------|---|--|
| REFRIGERANT RECOVERY CAPABILITY | | |
| Refrigerants | All refrigerants except R-11, R-113 and R-123 | |
| SAMPLE RECOVERY RATES (ARI CERTIFIED) | | |
| R410A | Vapor Recovery Rate: 0.42 lbs./min. (0.19 kg/min.) Liquid Recovery Rate: 3.3 lbs./min. (1.5 kg/min.) Push/Pull Recovery Rate: 15.65 lbs./min (7.1 kg/min.) | 0.84 lbs./min. (0.38 kg/min.) 9.37 lbs./min. (4.25 kg/min.) 53 lbs./min (24.04 kg/min.) |
| R22 | Vapor Recovery Rate: 0.37 lbs./min. (0.17 kg/min.) Liquid Recovery Rate: 4.96 lbs./min. (2.25 kg/min.) Push/Pull Recovery Rate: 13.01 lbs./min (5.9 kg/min.) | 0.75 lbs./min. (0.34 kg/min.) 8.31 lbs./min. (3.77 kg/min.) 50.51 lbs./min (22.91 kg/min.) |
| R134a | Vapor Recovery Rate: 0.29 lbs./min. (0.13 kg/min.) Liquid Recovery Rate: 3.86 lbs./min. (1.75 kg/min.) Push/Pull Recovery Rate: 11.84 lbs./min (5.37 kg/min.) | 0.57 lbs./min. (0.26 kg/min.) 6.12 lbs./min. (2.77 kg/min.) 41.7 lbs./min (18.92 kg/min.) |
| VACUUM SPECIFICATIONS | | |
| Compressor Type | 0.5 HP High Performance Oil-less Reciprocating | 1.0 HP High Performance Oil-less Reciprocating |
| Vacuum Rating | 13" Hg+ | |
| High Pressure Limit | 550 PSI (37.9 bar) | |
| OTHER SPECIFICATIONS | | |
| Power Source | 115 VAC, 50/60 Hz 230 VAC, 50/60 Hz | |
| Weight | 35 lbs. (15.9 kg) | 47 lbs. (21.3 kg) |
| Dimensions | 12" x 13" x 7.5" (30.5 cm x 33 cm x 19 cm) | 12" x 14.25" x 8.75" (30.5 cm x 36.2 cm x 22.3 cm) |
| Self Purging System | No hose changes | |
| 80% Shut-Off | Optional | |

ORDERING INFORMATION

| | |
|-----------|---|
| 2000-3600 | FM3600 410A Refrigerant Recovery Unit |
| 2000-3601 | FM3600 410A-S Refrigerant Recovery Unit w/80% Shut-off |
| 2000-3611 | FM3600 R-S Refrigerant Recovery Unit w/80% Shut-off Feature |
| 2000-3700 | FM3700 Refrigerant Recovery Unit |
| 2000-3707 | FM3700 Refrigerant Recovery Unit (European model) |
| 2000-3701 | FM3700-S Refrigerant Recovery Unit w/80% Shut-off Feature |

OPTIONAL ACCESSORY

| | |
|-----------|---------------------------|
| 2002-0081 | Optional 80% Shut-Off Kit |
|-----------|---------------------------|



Maintenance Tools

Vacuum Pump

- 2002-0005
- QV5 (26.25lbs.) - 5CFM
 - Two stage rotary vane pump
 - 1/4" and 3/8" flare and 1/2" ACME intake ports
 - Light, compact and well balanced
 - High performance vacuum, HP and CFM ratings for all A/C and refrigeration applications
 - 110 VAC / 60 Hz
 - One year warranty
- 2002-0001
- QV2 (21.5lbs.) - 2CFM



CS100 Charging Scale

- 2010-0000
- Auto zero
 - Tethered display with flip-up stand
 - Adjustable leveling feet with built-in level indicator
 - Handles a wide range of both standard and recovery cylinders up to 330lbs (150 kg)

Manifold Sets

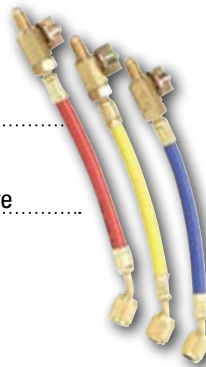
- 2002-4000
- MS040 manifold set with sight glass R-12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 2500 PSI burst pressure
- 2002-4300
- MS430 manifold set with sight glass R-410A with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-500 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 4000 PSI burst pressure
- 2002-4350
- MS435 4-valve manifold R-410A
- 2002-4375
- MS437 4-valve manifold R-12/22/134a
- 2002-5000
- MS050 manifold set R-12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-hand-wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-500 PSI. Hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure





Ball Valve Hose Set

- 2002-0003 • BV3 Ball Valve Hose Set R-12/22/134a with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure
- 2002-0040 • BV410A Ball Valve Hose Set 410A with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 800 PSI Max W.P. and 4000 PSI burst pressure



Hose Set

- 2002-4700 • MS470 hose set R-12/22/134a with three hoses (R/Y/B) 60" length and 1/4 flare fitting. Hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure



Flaring and Cutting Kit

- 2002-6400 • HT1226 flaring and cutting kit, includes (1) tubing cutter (1/8" to 1 1/8"), and (1) flaring tool (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8") all in a hard carrying case
- 2002-6500 • HT278 flaring and cutting kit, includes (1) tubing cutter (1/8" to 1 1/8"), flaring tool with (2) flares (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4"), (5) swaging adapters (3/16", 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4") and (1) refrigeration wrench with 4 square openings (3/16", 1/4", 5/16", 3/8") all in a hard carrying case



Flaring Tool

- 2002-7100 • HT195 flaring tool (7 sizes) for 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" O.D. tubing

Swaging Punch

- 2002-7200 • HT95 swaging punch for 1/4", 5/16", 3/8" 1/2", and 5/8" O.D. tubing





Flaring and Burnishing Tool

- 2002-0525 • HT525 flaring and burnishing tool, for 3/16" to 5/8" O.D. tubing



Tubing Cutter

- 2002-0780 • HT780 tubing cutter, capacity 1/8" to 7/8" O.D. tubing
2002-1818 • HT1818 tubing cutter, aluminum alloy body, chrome plated with spare cutter wheel. Capacity 1/8" to 1 1/8" O.D. tubing
2002-1858 • HT1858 tubing cutter, capacity 1/8" to 5/8" O.D. tubing
2002-1878 • HT1878 tubing cutter, zinc plated finish, capacity 1/8" to 5/8" O.D. tubing

Heavy Flaring Tool

- 2002-7000 • HT203 heavy flaring tool for 5/8", 3/4", 7/8" and 1 1/8" O.D. tubing



Flaring Tool

- 2002-6100 • HT500 flaring tool for 3/16" 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing

Humidity-Temperature Meter

- 2002-1800 • Humidity-temperature meter with case



Telescopic Inspection Mirrors

- 2002-0300 • HT3IM telescopic inspection mirrors, set of 4



PVC Pipe Cutter

2002-2120 • HT212 PVC pipe cutter, capacity up to 1 5/8"



Coupler

2002-1340 • Lowside R134a coupler
2002-1341 • Highside R134a coupler



Valve Core Removal Tool

2002-0125 • HTVCRT double ended valve core removal tool



Refrigeration Ratchet Wrench

2002-0112 • HTRW122 refrigeration ratchet wrench with 4 square openings, 3/16", 1/4", 5/16" and 3/8"
2002-0123 • HTRW123 refrigeration ratchet wrench with 3/16" and 1/4" square openings and 1/2" and 9/16" hex openings



Capillary Cutter

2002-8000 • HT128 capillary cutter





A/C, Refrigeration & Maintenance

A/C Refrigeration Family of Products

Stinger™

FM3600

FM3700



WHAT THEY DO

Recovers All Commonly Used Refrigerants Including R410A
Recovers Vapor and Liquid

HOW DO THEY WORK?

Vacuum Shut-Off Switch
Oil-less Compressor
Single Piston Compressor
Dual Piston Compressor
Filter Dryer

SPEED OF RECOVERY (LB/MIN)-R410A

Liquid Refrigerant Recovery Rate
Vapor Refrigerant Recovery Rate

WHAT THEY FEATURE

LED Status Light
Carrying Strap
Easy to Read Gauges
Weight
Size
Warranty

POWER SOURCE

Power Source

WHAT CAN BE ADDED

80% Tank Shut-Off

CERTIFICATIONS

ARI Performance Certification
CE Mark

✓

✓

✓

✓

✓

3.0 lbs/min
.22 lbs/min

✓

✓

✓

✓

✓

FM3600R-S

3.3 lbs/min
.42 lbs/min

✓

✓

✓

✓

✓

9.4 lbs/min
.84 lbs/min

✓

✓

✓

24 lbs

11"H x 17"L x 9.5"W
One Year Over
the Counter

✓

✓

✓

35 lbs

12"H x 13"L x 7.5"W
1-Year

✓

✓

✓

47 lbs

12"H x 14.25"L x 8.75"W
1-Year

110-120 VAC 1 Phase
50/60 HZ, 8 Amps
220-230 VAC

115 VAC 50/60 HZ,
230 VAC 50/60 HZ,
100 VAC 50/60 HZ

115 VAC 50/60 HZ
230 VAC 50/60 HZ,
100 VAC 50/60 HZ

✓

Comes standard
with FM3600R-S

Comes standard
with FM3700-S

✓

✓

✓

✓



BACHARACH'S GAS LEAK MONITOR FAMILY OF PRODUCTS

Bacharach monitors provide a unique combination of high sensitivity, large dynamic measurement range and speed of response. Utilizing infrared technology, these single and multi-zone products allow customers point by point customization, remote communications, centralized reporting and maintenance. Mainly used to detect and monitor Halogen and Ammonia refrigerant gases found in mechanical rooms, grocery stores and manufacturing. These state-of-the-art products lead the industry in performance, cost of ownership, integration capabilities and cost. Bacharach's gas leak monitor family of products are compliant with ASHRAE standard, 15-9994 and 15-2004.



Fixed Gas Monitors

Single Zone Gas Leak Monitor (HGM-SZ / AGM-SZ)



The HGM-SZ (Halogen Gas Monitor Single Zone) is designed for continuous single-point monitoring of CFC, HFC, HCFC, and Halon refrigerant gases. The HGM-SZ displays the type of gas being monitored, along with displaying both the current gas level and the peak gas level detected on its front panel LCD. The instrument retains a log of previous readings that can be easily accessed for analysis.

An internal audible alarm and front panel indicators are provided to signal alarm and fault conditions, and relay contacts can be used to trigger external alarm devices in the event of a system fault, or if a leak (small), spill (medium), or evacuation (large) level of gas is detected. The system also includes a 4-20 mA current loop interface that can be connected to remote monitoring equipment. Bacharach's gas leak monitor family of products are compliant with ASHRAE standards, 15-9994 and 15-2004.

SENSING TECHNOLOGY

Detector Single Pass, Non-dispersive Infrared (NDIR)

GASES DETECTED

HGM - SZ R-11, R-12, R21, R-22, R-23, R-113, R-114, R-123
R-124, R125, R-134a, R-227, R236FA, R245Fa,
R-401a, R-402a, R-402b, R-404a, R-407a, R407c,
R-408a, R409a, R-410a, R422a, R422d, R424A,
R426A, R427a, R-500, R-502, R-503, R-507,
R508b, HFP, H-1211, H-1301, H-2402, N-1230,
FA188, FC72, HFO-1234YF

AGM-SZ Ammonia (NH₃) - also known as R-717

MEASUREMENT RANGE / RESOLUTION

All Refrigerants 0-10,000 ppm in 1 ppm increments
Ammonia 25-10,000 ppm in 1 ppm increments

OUTPUTS

Alarm Relays 3 ea. SPDT, 5 Amp, 240 VAC rated
System Fault Relay 1 ea. SPDT, 5 Amp, 240 VAC rated
Digital Display Output 1 dedicated 4-20 mA analog output
(floating ground)

FRONT PANEL DISPLAY

3 Indicator Lights Green = Monitor is powered on. LED glows during normal operation; flashes when unit is in warm-up mode
Red = Alarm. LED flashes when any point has exceeded the alarm setting
Yellow = Fault. LED flashes when there is a system fault

COMMUNICATIONS

Full two-way communication with HGM-RD Display Module or Building Management System via RS-485 serial interface. RS-232C communication port standard

OTHER SPECIFICATIONS

Power 100 to 240 VAC, 50/60 Hz
Dimensions 7.5"H x 13.5"W x 3.625"D (190.5 x 343 x 92 mm)
Weight 5.5 lbs (2.5 kg.)
Maximum Monitoring Distance Up to 500 feet, from measuring point to monitor

CERTIFICATIONS

UL 61010-1, CSA 22.2 No. 61010-1
EN14624 & CE Mark

- Single zone gas leak refrigerant monitor
- Measurement range of 0-10,000 ppm
- Sensitivity to 1 ppm
- Provides continuous, unattended monitoring
- Capable of detecting and measuring any CFC, HFC or HCFC
- Can monitor a location up to 500 feet from display unit
- Other models are available that detect and monitor gases such as low range and high range CO₂, and Nitrous Oxide (N₂O)

ORDERING INFORMATION

3015-4200 HGMSZ single zone monitor (includes 1 termination filter, 50 ft. of 304-2742 sample line tubing and 50 ft. of 304-2743 exhaust /purge line tubing)
3015-4280 AGMSZ single zone monitor (includes 1 termination filter, 50 ft. of 304-2742 sample line tubing and 50 ft. of 304-2743 exhaust /purge line tubing)



Multi-Zone Gas Leak Monitor (HGM-MZ / AGM-MZ)

The Multi-Zone Gas Leak Monitor is a multiple area monitoring system for low level continuous monitoring of refrigerant gases used in most commercial systems including; CFC, HCFC, HFC and Ammonia. This state-of-the-art product leads the industry in performance, cost of ownership, integration capabilities and cost. Capable of detecting more than 35 refrigerant gases, the system design supports compliance to gas monitoring requirements of ANSI/BSR ASHRAE 15-1994 and 15-2004.

Bacharach's HGM-MZ uses stable infrared detection technology, and therefore requires only minor periodic maintenance such as the occasional replacement of filters. The monitor incorporates active diagnostics that continuously check the system for proper operation. An audible alarm and front panel indicators are provided to signal alarm and fault conditions, and relay contacts are provided that can be used to trigger external alarm devices in the event of a system fault or preset gas level thresholds.



SENSING TECHNOLOGY

Detector Single Pass, Non-dispersive Infrared (NDIR)

GASES DETECTED

HGM - MZ R-11, R-12, R-22, R-23, R-113, R-114, R-123, R-124, R-134a, R-227, R236FA, R-401a, R-402a, R125, R-402b, R-404a, R-407a, R407c, R-408a, R409a, R-410a, R-500, R-502, R-503, R-507, R508b, H-1211, H-1301, H-2404, N-1230

AGM-MZ Ammonia (NH₃) - also known as R-717

MEASUREMENT RANGE / RESOLUTION

All Refrigerants 0 - 10,000 ppm in 1 ppm increments

Ammonia 25 - 10,000 ppm in 25 ppm increments

OUTPUTS

Relays Four SPDT alarm contacts are provided (rated 5 Amps at 250 volts). Three assigned to ppm level alarms, one assigned to system fault

FRONT PANEL DISPLAY

3 Indicator Lights Green = Monitor is powered on. LED glows during normal operation; flashes when unit is in warm-up mode

Red = Alarm. LED flashes when any point has exceeded the alarm setting

Yellow = Fault. LED flashes when there is a system fault

COMMUNICATIONS

Full two-way communication with HGM-RD Display Module or Building Management System via RS-485 serial interface. RS-232C communication port standard

OTHER SPECIFICATIONS

Power 100 to 240 VAC, 50/60 Hz, 20 W

Dimensions 12.23" H x 13.7" W x 4.96" D

Weight 15 lbs

Maximum Monitoring Distance Up to 1,200 feet, from measuring point to monitor

CERTIFICATIONS

UL 61010-1, CSA 22.2 No. 61010-1

EN14624 & CE Mark

- Fastest response time in the industry
- Longest sampling distance of up to 1,200 feet
- Rapid identification of alarm type, leak size and location
- Free air calibration to ambient air thus eliminating the need to gas calibrate
- Monitors up to 16 zones with a maximum of 64 zones in combination with 4 monitors controlled by the Remote Display accessory unit
- Full two-way communications via RS-485

ORDERING INFORMATION

3015-5043 Halogen Gas Monitor 4 Zones

3015-5044 Halogen Gas Monitor 8 Zones

3015-5045 Halogen Gas Monitor 12 Zones

3015-5046 Halogen Gas Monitor 16 Zones

3015-5047 Ammonia Gas Monitor 4 Zones

3015-5048 Ammonia Gas Monitor 8 Zones

3015-5049 Ammonia Gas Monitor 12 Zones

3015-5050 Ammonia Gas Monitor 16 Zones

MULTI-ZONE KITS

3015-5330 Halogen Gas Monitor 4 Zones + Remote Display

3015-5331 Halogen Gas Monitor 8 Zones + Remote Display

3015-5332 Halogen Gas Monitor 12 Zones + Remote Display

3015-5333 Halogen Gas Monitor 16 Zones + Remote Display

3015-5334 Ammonia Gas Monitor 4 Zones + Remote Display

3015-5335 Ammonia Gas Monitor 8 Zones + Remote Display

3015-5336 Ammonia Gas Monitor 12 Zones + Remote Display

3015-5337 Ammonia Gas Monitor 16 Zones + Remote Display

ACCESSORIES

3015-5138 Remote Display for HGM-MZ (see page 30)

3015-5139 Remote Display for AGM-MZ (see page 30)



Fixed Gas Monitors



Remote Display



The Remote Display (HGM-RD/AGM-RD) is a Multi-Zone accessory that is placed in an alternate location from the MZ with access to the diagnostics, communications and control of the unit.

Features

- Remote access to control room for Multi-Zone data and diagnostics
- Quickly identify and resolve potential system faults
- Rapid identification of alarm type, leak size, and location
- Can connect up to 4 Multi-Zones expanding zone coverage to 64

ADDITIONAL ACCESSORIES FOR THE MULTI-ZONE MONITORS

| HGM or AGM | | Multi-Zone Accessories |
|------------|------|--|
| 3015-3076 | BOTH | Audio-Visual Alarm, 120 VAC |
| 3015-3411 | BOTH | 4 Zone Line End Filter Kit (4 line end filters) |
| 3015-3429 | BOTH | Standard Accessory Kit 4 Zone Monitor (5 line end filters & 1 charcoal filter) |
| 3015-3430 | BOTH | R-22 Gas Verification Kit |
| 3015-3437 | BOTH | R-134a Gas Verification Kit |
| 3015-3438 | BOTH | R-123 Gas Verification Kit |
| 3015-3850 | BOTH | 1031 Cylinder, 100 PPM R-22 |
| 3015-3851 | BOTH | 1031 Cylinder, 100 PPM R-134a |
| 3015-3852 | BOTH | 1031 Cylinder, 100 PPM R-123 |
| 3015-3949 | BOTH | Standard Accessory Kit 8 Zone Monitor (9 line end filters & 1 charcoal filter) |
| 3015-3950 | BOTH | Standard Accessory Kit 12 Zone Monitor (13 line end filters & 1 charcoal filter) |
| 3015-3951 | BOTH | Standard Accessory Kit 16 Zone Monitor (17 line end filters & 1 charcoal filter) |
| 3015-4121 | BOTH | 120 VAC Surge Protector |
| 3015-4123 | BOTH | 4-20 mAdc Surge Protector |
| 3015-4230 | BOTH | N2 (JCI Metasys) Communications Package |
| 3015-4231 | BOTH | Lon Works Communications Package |
| 3015-5171 | BOTH | 4 Zone Expansion Kit (max. of 3 per HGM300) Note: Must order M1110BN also. |
| 3015-5199 | BOTH | Annual maintenance kit (Charcoal Filter and Hydrophobic filter) |

ADDITIONAL ACCESSORIES FOR THE SINGLE-ZONE MONITORS

| HGM or AGM | | Single-Zone Accessories |
|------------|------|-----------------------------|
| 3015-4121 | BOTH | 120 VAC Surge Protector |
| 3015-4123 | BOTH | 4-20 mA DC Surge Protector |
| 3015-3069 | BOTH | Visual Alarm, 120 VAC |
| 3015-3070 | BOTH | Audio Alarm, 120 VAC |
| 3015-3076 | BOTH | Audio-Visual Alarm, 120 VAC |

REPLACEMENT PARTS

| | | Multi Zone Replacement Parts |
|-----------|------|--|
| 0007-1650 | BOTH | Hydrophobic Filter |
| 0204-0020 | BOTH | NiCad Battery |
| 3015-2906 | BOTH | Line End Filter Only |
| 3015-3125 | BOTH | Charcoal Filter Assembly with Fittings |
| 3015-3235 | HGM | Air Sample Tubing (250 ft. roll) |
| 3015-3420 | BOTH | Line End Filter Assembly |
| | | Single Zone Replacement Parts |
| 0007-1650 | BOTH | Hydrophobic Filter |
| 0204-0020 | BOTH | Battery |
| 3015-4306 | BOTH | Charcoal Filter |



BACHARACH'S SAFETY & SPECIALTY FAMILY OF PRODUCTS

Bacharach's broad experience and exceptional capabilities in the design and manufacture of gas monitors and analyzers over the years has led to the development of many special purpose products. These products often serve as tools in safety systems as well as various areas of performance test and measurement. Following are a few examples of specialty Bacharach products. The instruments included in this section are designed for the measurement of carbon monoxide, carbon dioxide and sulfur hexafluoride. These units serve unique purposes with a heavy emphasis on safety. Feel free to contact Bacharach if your monitoring need is out of the ordinary.

- Residential appliances, home inspection (CO)
- Food processing, pipe leak testing, flue gas (O₂)
- Safety and indoor air quality (CO₂)
- Incubators, medical gases (CO₂)
- Horticulture, food processing (CO₂)
- Air velocity and temperature meters
- Oxygen, air velocity and RH



Safety & Specialty Products

Monoxor® III / Oxor® III



Single gas monitors for Carbon Monoxide or Oxygen. Ideal for indoor air quality or food processing. These hand-held battery-operated monitors are versatile and easy to use. Each unit comes with a stainless steel probe assembly for remote sensing.

- Monoxor® III includes probe and hose assembly, print capability, instruction manual and hard carrying case
- Oxor® III measures and displays CO range of 0-2,000 ppm
- Easy and affordable
- Oxor® III measures ambient air or O₂ deficiency
- Resolution to 1 ppm
- Full 4 digit display
- 18 hour battery life
- Monoxor® III Kit includes printer, probe and hose assembly, carrying strap, instruction manual and hard carrying case
- Oxor® III includes probe, hose assembly and hard carrying case
- Measures and displays O₂ from 0-20.9%
- Oxor® III kit includes 4AA batteries, probe and hose assembly and a hard carrying case plus an IRDA printer

Monoxor® III Specifications

SENSING TECHNOLOGY

Electrochemical sensor

GASES MEASURED / RANGE (RESOLUTION)

Carbon Monoxide 0-2000 ppm (in 1 ppm increments)

WARM-UP TIME

10 or 60 seconds (depending on CO channel zero setup)

DISPLAY

Four-digit LCD display with backlight

OPERATING TEMPERATURE

Instrument 32°-104°F (0 - 40°C)

Probe 1000°F (535°C) at 5" insertion

OTHER SPECIFICATIONS

Power Four 'AA' alkaline batteries (included)

Battery Life Up to 18 hours continuous operation

Size 7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)

Weight 16 oz (0.45kg) with batteries

Warranty Two years, including sensor

Oxor® III Specifications

SENSING TECHNOLOGY

Electrochemical sensor

GASES MEASURED / RANGE (RESOLUTION)

Oxygen 0 - 20.9% (in 0.1% increments)

WARM-UP TIME

90% of final value in 30 seconds

DISPLAY

Four-digit LCD display with backlight

OPERATING TEMPERATURE

Instrument 32°-104°F (0 - 40°C)

Probe 1000°F (535°C) at 5" insertion

OTHER SPECIFICATIONS

Power Four 'AA' alkaline batteries (included)

Battery Life Up to 18 hours continuous operation

Size 7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)

Weight 16 oz (0.45kg) with batteries

Warranty Two years - instrument; one year - sensor

ORDERING INFORMATION

19-8104 Monoxor® III CO Monitor

19-8105 Monoxor® III CO Kit

OPTIONAL ACCESSORIES

24-1400 IrDA Printer w/ Disposable Batteries

24-1229 IrDA Printer w/ Rechargeable Batteries

24-1310 Printer Paper (5 rolls)

07-1644 Filter Element for Water Trap (pkg of 3)

ORDERING INFORMATION

19-8112 Oxor® III Oxygen Monitor

19-8113 Oxor® III Oxygen Kit

OPTIONAL ACCESSORIES

24-1400 IrDA Printer w/ Disposable Batteries

24-1229 IrDA Printer w/ Rechargeable Batteries

24-1310 Printer Paper (5 rolls)

07-1644 Filter Element for Water Trap (pkg of 3)

11-0121 Wool Saturator for Probe Tube (pkg of 10)



Snifit®

Bacharach's affordable Snifit monitors accurately measure carbon monoxide levels in a variety of applications. Small and lightweight, yet durable for service technicians, the Snifit quickly and precisely measures CO levels from 0-1,999 ppm. With simple-button operation the monitors are easy to use and maintain.



19-7060

- Ideal for ambient air safety checks on residential appliances, home inspection and HVAC Service
- Measures and displays Carbon Monoxide 0-1,999 ppm, 1 ppm resolution
- Small enough to fit in your pocket
- Backlight for low light conditions
- Three button operation
- Low battery indicator

SENSING TECHNOLOGY

Electrochemical sensor (CO)

GAS MEASURED / RANGE (RESOLUTION)

Carbon Monoxide 0-1999 ppm (in 1 ppm increments)

DISPLAY

Four-digit LCD display with backlight

OPERATING TEMPERATURE

Instrument 32°-104°F (0 - 40°C)

OTHER SPECIFICATIONS

| | |
|--------------|---|
| Power | One 9 volt battery |
| Battery Life | 6 months with normal duty cycles |
| Size | 5.5" H x 2.0" W x 1.57" L (14 cm H x 5 cm W x 4 cm L) |
| Weight | 8 oz (0.23kg) with battery |



Portable Gas Analyzers



The Bacharach CO₂ Monitor 2800 is a personal detection and warning device that immediately responds to excessive amounts of carbon dioxide. The Bacharach CO₂ monitor is based on the principle of infrared absorption and has two preset alarm levels at 5,000 ppm and 10,000 ppm. When either of these levels is reached, audible and visual alarm signals are activated, sounding until the CO₂ level drops below the lowest pre-set level. These measurement range and preset alarm levels can be changed using the instrument's integral IrDA communications link and the optional BACH-COM software.

- Compact and lightweight
- Rapid detection of changing CO₂ levels
- Maintenance free/dual wavelength infrared CO₂ sensor
- Automatic data logging provides complete CO₂ exposure record
- Adjustable audible and visual alarms

SENSING TECHNOLOGY

Infrared (IR)

GAS MEASURED / RANGE (RESOLUTION)

Factory Set or User-Selectable Range w/ optional software

Carbon Dioxide 0-50,000 ppm (in 100 ppm increments)

Carbon Dioxide 0-5% (in 0.01 % increments)

RESPONSE TIME

T90 < 10 seconds @ 5,000 & 10,000 ppm (preset alarm levels)

DISPLAY

Four-digit LCD display with backlight

AUDIBLE ALARM

85 dB @ 0.5 meters

OPERATING TEMPERATURE

Instrument 32°-104°F (0 - 40°C)

RELATIVE HUMIDITY

0-99% (non-condensing)

OTHER SPECIFICATIONS

| | |
|--------------|---|
| Power | Rechargeable NiMH battery |
| Battery Life | 10 hours of continuous use |
| Size | 5.5" H x 2.6" W x 0.8" L (14 cm H x 6.6 cm W x 2 cm L) |
| Weight | 7 oz (0.2kg) with battery |
| Case / Seal | High-impact ABS with IP65 rating |

ORDERING INFORMATION

19-7101 CO₂ Model 2800 (specify range)

OPTIONAL ACCESSORIES

| | |
|---------|---|
| 19-3301 | IrDA Interface BACH-COM Software |
| 19-3304 | Protective Rubber Boot |
| 19-3302 | Car Charger (12 VDC) |
| 10-3303 | Earphone |
| 19-3305 | Calibration Cup |
| 51-2978 | Calibration Kit (regulator and tubing only) |
| 54-0600 | Calibration Gas (340 ppm CO ₂) |



Safety & Specialty Products



Portable Gas Monitors



New portable safety and specialty gas monitors designed to measure CO₂ for verification of incubators, analyze CO₂ levels for indoor air quality (IAQ) and other safety needs. Developed to incorporate the latest infrared technology and provide a long life and low maintenance.

- Fast and accurate
- Quick downloads
- Large data storage space
- Easy to use key pads

CO₂ Model 3100

| | |
|---------|---|
| 19-7076 | • CO ₂ Only |
| 19-7077 | • CO ₂ / O ₂ |
| 19-7078 | • CO ₂ / O ₂ and RH |

CO₂ Model 3150

| | |
|---------|---|
| 19-7136 | • CO ₂ Only |
| 19-7137 | • CO ₂ / O ₂ |
| 19-7138 | • CO ₂ / O ₂ and RH |

| GASES MEASURED | CO ₂ MODEL 3100 CO ₂ , O ₂ (OPTIONAL) | CO ₂ MONITOR 3150 CO ₂ , O ₂ (OPTIONAL) |
|-----------------------------|---|---|
| Range/ Resolution | | |
| CO ₂ | 0-20% / 0.1% increments | 0-10,000 ppm / 5 ppm increments |
| O ₂ | 0-100% / 0.1% increments | 0-100% / 0.1% increments |
| Response Time | | |
| CO ₂ | T90 ≤20 seconds | T90 ≤20 seconds |
| O ₂ | T90 ≤60 seconds | T90 ≤60 seconds |
| OTHER MEASUREMENTS | | |
| Temperature (Optional) | Up to 2 readings using optional probes 32 °F to +122 °F (0 - 50 °C) | Up to 2 readings using optional probes 32 °F to +122 °F (0 - 50 °C) |
| RH measurement (Optional*) | RH Probe 0-100% RH non-condensing | RH Probe 0-100% RH non-condensing |
| OTHER SPECIFICATIONS | | |
| Operating Temperature Range | 41°F - 104°F (5°C - 40°C) | 41°F - 104°F (5°C - 40°C) |
| Humidity Range | 0-95% non condensing (RH Probe 0-100% non condensing) | 0-95% non condensing (RH Probe 0-100% non condensing) |
| Dimensions | L 6 1/2" x W 4" x D 2 3/16" | L 6 1/2" x W 4" x D 2 3/16" |
| Weight | 18 oz | 18 oz |
| Power Source | Li-Ion (Lithium Ion) Rechargeable Battery | Li-Ion (Lithium Ion) Rechargeable Battery |
| Runtime | 10 Hours (8 hours with pump running) | 10 Hours (8 hours with pump running) |
| Charger | Universal AC Charger (120-240 VAC) | Universal AC Charger (120-240 VAC) |
| Charge Time | 3 Hours | 3 Hours |
| Alternative Power | USB connector to PC (power only) | USB connector to PC (power only) |
| Pump Flow | 100cc/min typically | 100cc/min typically |
| Data Storage | 1000 readings + 270 events | 1000 readings + 270 events |
| Data Download (Optional) | USB type B mini-connector, HID device class | USB type B mini-connector, HID device class |
| Instrument | 1 year | 1 year |
| Sensor (CO ₂) | 3 years (excluding cell contamination) | 3 years (excluding cell contamination) |

Instrument comes with: Sensor options as ordered, battery (installed), charger (120 - 230 VAC), sample tubing line (1 m), dust filter, operating instructions.

* RH Option must be chosen at the time of order. Comes with RH probe.



Portable Area Gas Monitor



Bacharach's Portable Area Gas Monitor is an advanced instrument using non-dispersive infrared (IR) technology which provides superior stability and repeatability. The unit can provide readings in either parts per million (ppm) or elapsed time weighted average (TWA) with a resolution down to 1 ppm. The internal pump and self-contained purge-air bag provides a constant zero enabling the monitor to be used in contaminated environments without affecting the readings of the target gas. Additional features include datalogging of up to 200 readings, and a leak check mode with audible and visual alarms.

- This area gas monitor utilizes infrared technology for detection and measurement of gases including SF₆, MeBr, N₂O, and refrigerants
- Seeks out low-level leaks with display and alarm
- Download and print capabilities
- Applications include fumigation gas detection, safe entry, switch gear protection and refrigeration gas monitoring
- Two year warranty
- Instrument comes with battery pack, charger and soft case

SENSING TECHNOLOGY

Non-Dispersive Infrared (NDIR)

GASES DETECTED

Refrigerants CFC, HFC, and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R-236FA, R-245FA, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-500, R-502, R-503, R-507, R-508B, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230

Sulfur Hexafluoride (SF₆)

Nitrous Oxide (N₂O)

Methyl Bromide (MeBr)

MEASUREMENT RANGE/ RESOLUTION

All Gases 0-1000 ppm in 1 ppm increments

RESPONSE TIME

90% of response within 5 seconds; 100% in 7 seconds

WARM UP TIME

15 minutes

OTHER SPECIFICATIONS

Internal Pump 1 lpm typical
 Power Li-Ion rechargeable battery with battery life indicator
 Operating Temperature Range 32 to 122°F (0 to 50°C)
 Storage Temperature Range -4 to 122°F (-20 to 50°C)
 Operating Humidity Range 5 to 90% RH, non condensing
 Size 8"D x 19"W x 5"H (20.3 cm x 48.3 cm x 12.7 cm)
 Weight 6 lbs. 12oz (3.07 kg)
 Leak Check Mode Internal audible alarm, programmable
 w/ Probe (+3 ft tubing) Visual alarm indicator
 Warranty 2 Years (excluding contamination)

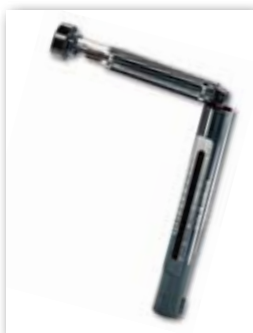
ORDERING INFORMATION

| | |
|-----------|---|
| 3015-4484 | Refrigerant Gases |
| 3015-4790 | Nitrous Oxide (N ₂ O) |
| 3015-4785 | Methyl Bromide (MeBr) |
| 3015-5148 | Sulfur Hexafluoride (SF ₆)* |

*Special Order Only



IAQ Tools



Sling Psychrometer

The Sling Psychrometer accurately determines percent relative humidity without the necessity of consulting complex tables. The Sling Psychrometer contains a slide rule calculator which correlates wet and dry bulb thermometer indications for direct reading of relative humidity.

- | | |
|---------|---|
| 12-7012 | • +25°F to +120°F Red Spirit Filled |
| 12-7043 | • -5° to +50°C Red Spirit Filled |
| 12-0266 | • Thermometer (+25°F to +120°F Red Spirit Filled) |
| 12-0327 | • Thermometer (-5° to +50°C Red Spirit Filled) |
| 12-0011 | • Wick Replacement Kit - contains 4 wicks |
| 06-5456 | • Cap |

Florite®

These air velocity meters are easy to use. Simply hold the Florite® in the air stream or in an open area of air, insuring the face is a flat surfaced register so that air current is blowing directly into the instrument. No stop watch, curves or calculations are any kind of necessity.

- | | |
|---------|--|
| 16-7001 | • Florite® Model MRF, 0-1,000 FPM |
| 16-7002 | • Florite® Model MRF, dual scale, 0-3,000 FPM and 0-35 MPH |



OBSOLETE



Floret®

The Floret® is an ideal pocket size air flow indicator for applications where readability to 50 ft/min is adequate. The Floret® is a handy instrument that can be used for checking air flow through openings as small as 1/4" in diameter.







- | | |
|---------|------------------------------|
| 16-7009 | • Floret® Model, 0-1,000 FPM |
|---------|------------------------------|

Anemometer Model TH4200

- | | |
|-----------|---|
| 2042-0000 | <ul style="list-style-type: none"> • 0-8,800 FPM • Coiled Cable Vane Head • Temperature: 32°F – 140°F (0°C – 60°C) • Data hold and low battery indication • Sensitive for low/high air velocity • Also displays in Km/hr, Knots, M/S • Includes soft carrying case and battery |
|-----------|---|





| Safety & Specialty Products | Snift® | Monoxar® III | Oxar® III | CO ₂ 3100 | CO ₂ 3150 | CO ₂ 2800 |
|--|---|---|--|---|---|---|
| |  |  |  |  |  |  |
| WHAT THEY DO | | | | | | |
| Measure Indoor Air Quality | ✓ | ✓ | ✓ | | ✓ | |
| Function as a Personal Protection Device | ✓ | | | | | ✓ |
| Function as a Test Instrument | | ✓ | ✓ | ✓ | ✓ | ✓ |
| WHAT THEY MEASURE | | | | | | |
| Carbon Monoxide (CO) | 0-1,999 PPM | 0-2,000 PPM | | | | |
| Carbon Dioxide (CO ₂) | | | | 0-20% | 0-10,000 PPM | 0-50,000 PPM or 0-5% |
| Oxygen (O ₂) | | | 0-20.9% | 0-100% | 0-100% | |
| Nitrous Oxide (N ₂ O) | | | | | | |
| Temperature | | | | Optional | Optional | |
| Relative Humidity | | | | Optional | Optional | |
| MEASUREMENT CHARACTERISTICS | | | | | | |
| Response Time (Seconds to 90%) | <30 | <40 | <40 | <20 | <20 | <10 |
| Warm Up Time (Seconds) | 30 | 10 or 60 | 60 | 15 | 15 | 20 |
| WHAT THEY FEATURE | | | | | | |
| Digital Readout of Measurement | Backlit | Backlit | Backlit | Backlit | Backlit | Backlit |
| Visual Alarm | | | | ✓ | ✓ | ✓ |
| Audible Alarm | | | | ✓ | ✓ | ✓ |
| Datalogging | | | | ✓ | ✓ | ✓ |
| Printer Port | | IrDA | IrDA | USB | USB | IrDA |
| Power Source | 9V Alkaline | 4 'AA' Alkaline | 4 'AA' Alkaline | Li-ion Rechargeable | Li-ion Rechargeable | NiMH Rechargeable |
| Warranty | 1-Year | 2-Year | 2-Year | 1-Year | 1-Year | 1-Year |
| CERTIFICATIONS | | | | | | |
| CE-MARK | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

REPLACEMENT SENSORS

| | |
|-----------|--|
| 24-1467 | B-Smart™ Carbon Monoxide Sensor for Fyrite® INSIGHT |
| 19-7061 | Carbon Monoxide (CO) Sensor for Sniffit® |
| 24-7265 | Carbon Monoxide (CO) Sensor for Fyrite® INSIGHT/Tech/Monoxor®III |
| 24-0997 | Carbon Monoxide (CO) Sensor (High) for Fyrite® ECA 450/PCA®2 |
| 24-0789 | Carbon Monoxide (CO) Sensor (Low) for Fyrite® ECA 450/PCA®2 |
| 24-1055 | Combustible Sensor for Fyrite® ECA |
| 24-0881 | Nitric Oxide (NO) Sensor for Fyrite® ECA |
| 24-1027 | Nitrogen Dioxide (NO ₂) Sensor for Fyrite® ECA/PCA®2 |
| 24-0788 | Oxygen (O ₂) Sensor for Fyrite® ECA/PCA®2/INSIGHT |
| 24-8106 | Oxygen (O ₂) Sensor for Fyrite® Tech & Oxor®III |
| 24-0998 | Sulfur Dioxide Sensor, SO ₂ for Fyrite® ECA/PCA®2 |
| 19-0499 | Combustible Sensor for Informant® 2 |
| 19-0575 | Combustible Sensor for Leakator® Jr. |
| 19-0510 | Refrigerant Sensor for Informant® 2 |
| 19-0559 | Refrigerant Sensor for Tru Pointe® |
| 3015-0486 | Refrigerant Sensor for H-10G & H-10PM |
| 19-0398 | Sensor and Resistor for Leakator® 10 |

ACCESSORIES

| | |
|-----------|---|
| 24-1124 | 20' Hose Extensions (w/Sample, Draft & Thermocouple Lines) |
| 3015-0131 | AC Adapter (120V) for H10-PM |
| 3015-0147 | AC Adapter (240V) for H-10G |
| 24-1254 | AC Power Adapter (universal) for Fyrite® INSIGHT/Monoxor®III & Oxor® III |
| 24-1404 | AC Power Adapter (universal) Fyrite® PCA®2 |
| 3015-3076 | Audio - Visual Alarm 120 VAC for HGM-MZ & HGM-SZ |
| 3015-0103 | Battery for H10PM |
| 19-0397 | Carrying Case for Leakator® 10 |
| 19-0501 | Carrying Case for Tru Pointe® |
| 24-7224 | Compact Sample Conditioner/Probe Assembly for Fyrite® ECA 450/PCA®2 |
| 24-1492 | Fyrite® Recording Kit (Printer, CD and USB Cable) for Fyrite® ECA 450/PCA®2 |
| 24-1470 | Fyrite® User Software CD for Fyrite® ECA 450/PCA®2 |
| 24-1491 | Fyrite® User Software Kit (CD and USB Cable) for Fyrite® ECA 450/PCA®2 |
| 24-0865 | Hard Carrying Case for Fyrite® PCA®2/INSIGHT/Tech |
| 24-8214 | Pressure Accessory Kit for Fyrite® ECA 450/PCA®2/INSIGHT |
| 19-3037 | Probe Stop - Universal for Fyrite® ECA 450/PCA®2/INSIGHT |
| 24-1127 | Protective Rubber Boot with Magnet for Fyrite® Tech |
| 24-1409 | Protective Rubber Boot with Magnet for Fyrite® PCA®2/INSIGHT |
| 104-4027 | Serial Cable for Fyrite® Tech |
| 24-1267 | Soft Carrying Case for Fyrite® Tech |
| 104-1798 | Thermocouple, 1' (for Ambient Air Temperature) |
| 104-1797 | Thermocouple, 10' (for Primary Air) |
| 104-4032 | USB Cable for Fyrite® PCA®2/INSIGHT |
| 19-0553 | Probe Assembly for Tru Pointe® |
| 19-3091 | Probe Assembly for Leakator® 10 |
| 19-0497 | Protective Rubber Boot for Informant® 2 |
| 24-8414 | Thermocouple Kit, 12 inch for Fyrite® ECA 450/PCA®2/INSIGHT |

REPLACEMENT PARTS: FILTERS

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|-----------|---|
| 3015-5199 | Annual Maintenance Kit (1 internal Filter, 1 Charcoal Filter) for HGM-MZ |
| 3015-4306 | Charcoal Filter for HGM-SZ |
| 3015-3125 | Charcoal Filter with Fittings for HGM-MZ |
| 07-1654 | Desiccant Filter for Portable Area Monitor |
| 07-1650 | Hydrophobic Filter for HGM-MZ & HGM-SZ |
| 3015-4415 | Hydrophobic Filter for H25-IR |
| 07-1700 | Inline Filter for Stinger® |
| 07-1563 | Filter for Inlet of Gas Pump for Fyrite® ECA 450/PCA®2/INSIGHT |
| 3015-3420 | Line End Filter for HGM-MZ & HGM-SZ |
| 24-0987 | Sensor Filter, CO (High) for Fyrite® ECA 450/PCA®2 |
| 24-0863 | Sensor Filter, CO (Low) for Fyrite® ECA 450/PCA®2 |
| 24-0862 | Sensor Filter, NO for Fyrite® ECA 450/PCA®2 |
| 19-3265 | Water Trap/Filter Assembly for Fyrite® PCA®2/INSIGHT/Tech |
| 24-1172 | Water Trap/Filter Assembly for Fyrite ECA 450 |
| 19-3318 | Moisture Removal Kit |
| 3015-4515 | Plastic Probe Tip Filter (Package of 10) for H25-IR |
| 3015-4516 | Plastic Probe Tip Filter (Package of 50) for H25-IR |
| 3015-4680 | Water Trap for HGM-MZ |
| 3015-5135 | Metal Probe Tip Filter (Package of 50) for H25-IR |
| 19-0509 | Filter 5 Pack for Informant® 2 |
| 07-1598 | Filter Element for Water Trap (Pkg. of 3) |
| 07-1644 | Filter Element for Water Trap (Pkg. of 3) for Fyrite® ECA 450/PCA®2/INSIGHT/Tech & Monoxor® III |
| 54-0548 | Particulate Filter for Safe Entry Monitor |

REPLACEMENT PARTS

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|-----------|---|
| 3015-0326 | 14" Flexible Probe for H-10G & H-10PM |
| 19-0548 | Battery Door for Tru Pointe® |
| 204-0020 | Battery - AA Lithium |
| 3015-0641 | Clear Probe Tip for H-10G & H-10PM |
| 19-0507 | Combustible Probe Tip Red for Informant® 2 |
| 2002-0011 | Compressor Rebuilt Kit for FM3600/3700 |
| 24-0878 | Connector, Draft Female for Fyrite® ECA 450/PCA®2/INSIGHT |
| 24-0877 | Connector, Gas Female or Fyrite® ECA 450/PCA®2/INSIGHT |
| 2063-0010 | High Pressure Gauge for FM3600/3700 |
| 3015-0864 | Leak Reference Bottle for H-10G & H-10PM |
| 2063-0020 | Low Pressure Gauge for FM3600/3700 |
| 3015-0784 | Maintenance Kit for H-10G & H-10PM |
| 2014-0310 | Pressure Switch for FM3600/3700 |
| 21-3048 | Pump Assembly for Fyrite® INSIGHT |
| 24-3009 | Pump Assembly for Fyrite® ECA 450 |
| 24-3020 | Pump Assembly for Fyrite® Tech, Monoxor® III & Oxor® III |
| 3015-5176 | Pump with Connector for HGM-MZ & HGM-SZ |
| 3015-4552 | R-134 Leak Source Replacement Kit for H25-IR |
| 3015-4553 | R-600a Leak Source Replacement Kit for H25-IR |
| 10-5057 | Refill Fluid CO2 20 & 60 % 3 Bottles Per Carton for Fyrite® Classic |
| 10-5100 | Refill Fluid CO2 7% 3 Bottles Per Carton for Fyrite® Classic |

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|-----------|--|
| 10-5060 | Refill Fluid 02 21 & 60 % 3 Bottles Per Carton for Fyrite® Classic |
| 10-5103 | Refill Fluid 02 7% 3 Bottles Per Carton for Fyrite® Classic |
| 19-0473 | Refrigerant Probe Tip Blue for Informant® 2 |
| 24-3048 | Replacement Pump for Insight / Pro |
| 11-7052 | Repair Kit CO2 20 & 60% for Fyrite® Classic |
| 11-7053 | Repair Kit CO2 7% for Fyrite® Classic |
| 11-7054 | Repair Kit 02 21 & 60% for Fyrite® Classic |
| 19-0577 | Battery Door for Leakator® Jr. |
| 19-0576 | Replacement Sensor Cover for Leakator® Jr. |
| 3015-0680 | Rubber Probe Tip for H-10G & H-10PM |
| 19-7114 | Smart Probe Assembly with 12ft Probe Hose for H25-IR (gray) |
| 19-7132 | Smart Probe Assembly with 6ft Probe Hose for H25-IR (black) |
| 3015-0638 | Standard Probe for H-10G & H-10PM |
| 2063-0160 | Stinger High Pressure Gauge |
| 2063-0150 | Stinger Low Pressure Gauge |
| 2045-0620 | Stinger Round Head Compressor |
| 2039-0490 | Stinger Round Head Compressor Over Haul Kit |
| 2039-0480 | Stinger Round Head Compressor Repair Kit Piston Cup, O-Rings |
| 2045-0181 | Stinger Square Head Compressor |
| 2090-0042 | Stinger Square Head Compressor Rebuild Kit |
| 3015-0781 | Tune-Up Kit for H-10G & H-10PM |

CALIBRATION GAS

| | |
|---------|---|
| 51-1994 | 100 ppm CO, 103 L for Fyrite® PCA®2/INSIGHT/Tech/Monoxor® III & Snifit® |
| 24-1157 | 100 ppm NO2, 58 L for Fyrite® ECA 450/PCA®2 |
| 24-1158 | 100 ppm SO2, 58 L for Fyrite® ECA 450/PCA®2 |
| 24-0794 | 1,000 ppm CO, 1,000 ppm H2, 103 L for Fyrite® ECA 450/PCA®2 |
| 51-1121 | 2.5% CH4, 103 L for Fyrite® ECA 450 |
| 24-1156 | 250 ppm NO, 58 L for Fyrite® ECA 450/PCA®2 |
| 24-1155 | 4000 ppm CO, 103 L for Fyrite® ECA 450/PCA®2 |
| 24-0492 | 500 ppm CO, 103 L for Fyrite® ECA 450/PCA®2/INSIGHT/Tech & Monoxor® III |
| 24-7059 | Calibration Kit (Less Calibration Gas) |

PRINTERS

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|---------|--|
| 24-1229 | IRDA Printer (Includes Battery Pack Charger, 1 Roll of Paper) for Fyrite® PCA®2/INSIGHT/Tech/Portable Area Gas Monitors/Monoxor® III/Oxor® III |
| 24-1440 | IRDA Printer w/ Disposable Batteries |
| 06-0887 | Printer Paper (1 Roll - HP Printer) |
| 24-8733 | Printer Paper (1 Roll - IRDA Printer) |
| 24-1256 | Printer Paper (5 Rolls - HP Printer) |
| 24-1310 | Printer Paper (5 Rolls - IRDA Printer) |
| 24-0980 | Printer Paper (5 Rolls) for Fyrite® ECA 450 |

Shipping Weight & Dimensions



| PRODUCT | SHIPPING WEIGHT | SHIPPING DIMENSIONS | PRODUCT | SHIPPING WEIGHT | SHIPPING DIMENSIONS |
|---------------------------------------|-----------------|---------------------|---|-----------------|---------------------|
| ECA 450 | 30 lbs. | 18" x 13" x 10" | PVC Pipe Cutter | 13 oz. | 5" x 10.5" x 1.5" |
| PCA® 2, Fyrite® INSIGHT | 6.8 lbs. | 17.5" x 6" x 13" | Valve Core Removal Tool | 2 oz. | 3" x 5" x 1" |
| Fyrite® Tech | 4 lbs. | 17" x 6" x 13" | Swaging Punch | 1 oz. | 2.5" x 9" x 1" |
| Fyrite® Duplex Kit | 13 lbs. | 13" x 6" x 11" | Pocket Dial Thermometer | 1 oz. | 3" x 8.5" x 1" |
| Fyrite® Fluid (1 carton of 3 bottles) | 2 lbs. | 10" x 5" x 4" | R-410A Manifold Set | 3 lbs. 8 oz. | 12.5" x 14" x 2" |
| Fyrite® Indicator | 3 lbs. | 10" x 5" x 4" | R-12/22/134a Manifold Set | 3 lbs. 8 oz. | 12.5" x 14" x 2" |
| Fyrite® Refill Package | 2 lbs. | 13" x 6" x 11" | R-12/22/134a Manifold Set w/Sight Glass | 3 lbs. 8 oz. | 12.5" x 14" x 2" |
| Fyrite® Repair Package | 1 lb. | 13" x 6" x 11" | R-410A Manifold Set w/Sight Glass | 3 lbs. 8 oz. | 12.5" x 14" x 2" |
| Fyrite® Combustion Kit | 15 lbs. | 18" x 6" x 16" | R-410A Hose Set | 1 lb. 14 oz. | 12.5" x 14" x 2" |
| Draftrite® Draft Gauge | 1 lb. | 4" x 3" x 1" | Spring Type Tubing Benders | 2 lbs. 4 oz. | 5" x 18.5" x 1.5" |
| True Spot® Smoke Tester | 1 lb. | 9" x 8" x 9" | R-12/22/134a Ball Valve Hose Set | 1 lb. | 6" x 14" x 1" |
| Monoxor® III, Oxor® III | 3 lbs. | 17" x 10" x 5" | 3 in 1 Tubing Bender 180° | 1 lb. | 8" x 13" x 5" |
| Multi Zone | 16 lbs. | 25" x 18" x 14" | 3 in 1 Tubing Bender 90° | 15 oz. | 4.5" x 13" x 2.5" |
| MZF Draft Gauge | 3 lbs. | 7" x 5" x 9" | 7 Sizes Flaring Kit | 4 lbs. 6 oz. | 8.5" x 6" x 1.5" |
| Snifit® 50 | 1 lb. | 3" x 4" x 7" | Flaring & Cutting Kit | 3 lbs. 5 oz. | 13" x 5.5" x 2" |
| Informant® 2 Kit / Tru Pointe® | 3 lbs. | 4" x 3" x 12" | Flaring, Swaging & Cutting Kit | 5 lbs. 9 oz. | 13" x 10" x 2" |
| Informant® 2 Deluxe Kit | 4 lbs. | 7" x 4" x 16" | Tube Expander Kit | 9 lbs. 1 oz. | 18" x 8" x 2.5" |
| Leakator® Jr. | 1 lb. | 13" x 8" x 5" | R410A Gauge (2002-0410) | 1/2 lb. | 4.5" x 6" x 1.5" |
| Leakator® 10 | 2 lbs. | 9" x 2" x 2" | R410A Gauge (2002-0420) | 1/2 lb. | 4.5" x 6" x 1.5" |
| CO2 Monitor 3100 & 3150 | 3 lb. | 17" x 13" x 3" | R12/22/134a Gauge (2002-0250) | 1/2 lb. | 4.5" x 6" x 1.5" |
| CO2 Analyzer 2800 | 1 lb. | 10" x 7" x 3" | R12/22/134a Gauge (2002-0550) | 1/2 lb. | 4.5" x 6" x 1.5" |
| Floret® Air Velocity Meter | 1 lb. | 7" x 4" x 2" | 6 Sizes Flaring Kit | 2 lbs. 1 oz. | 7.5" x 9.5" x 1.5" |
| Florite® Air Velocity Meter | 4 lbs. | 5" x 7" x 3" | Heavy Flaring Kit | 2 lbs. 5 oz. | 9" x 8.5" x 1" |
| Single Zone | 5 lbs. | 16" x 12" x 10" | Flaring Burnishing Tool | 1 lb. 15 oz. | 7.5" x 9.5" x 1.5" |
| Sling Psychrometer | 1 lb. | 12" x 9" x 6" | Tubing Cutter (2002-1858) | 11 oz. | 4" x 9" x 1.5" |
| Stinger | 28 lbs. | 18" x 13" x 18" | Tubing Cutter (2002-0780) | 3 oz. | 4" x 5" x 1" |
| Recovery Unit 3600-410A, | | | Tubing Cutter (2002-1878) | 4 oz. | 4" x 5" x 1" |
| Recovery Unit 3600 R-S | 39 lbs. | 18" x 13" x 18" | Tubing Cutter (2002-1818) | 4 oz. | 4" x 5" x 1" |
| Recovery Unit 3700 | 52 lbs. | 18" x 13" x 18" | Telescopic Mirror Set | 12 oz. | 9" x 15.5" x 1" |
| H25-IR | 18 lbs. | 18" x 15" x 15" | Capillary Tube Cutter | 3 oz. | 3" x 8" x 1" |
| Dual-Channel Digital Thermometer | 14 oz. | 7" x 12.5" x 2" | Fin Straightener | 4 oz. | 5" x 6" x 1" |
| Humidity-Temperature Meter | 2 lbs. | 18" x 15" x 15" | Inner Outer Reamer (2002-6900) | 8 oz. | 4.5" x 6" x 2" |
| Anemometer | 1 lb. 3 oz. | 9" x 12.5" x 3" | Inner Outer Reamer | 8 oz. | 4.5" x 6" x 2" |
| H10PM, H10G | 7 lbs. | 12" x 10" x 8" | Valve Core Removal Tool | 2 oz. | 3" x 5" x 1" |
| Tru Pointe® | 3 lbs. | 19" x 8" x 4" | Charging Scale | 10 lbs. 10 oz. | 17" x 15" x 4.5" |
| Infrared Thermometer | 11 oz. | 5.5" x 12.5" x 3" | | | |
| Digital Pocket Thermometer | 2 oz. | 3.5" x 9" x 1.5" | | | |
| Refrigeration Wrenches (2002-0122) | 5 oz. | 2" x 8" x 1" | | | |
| Refrigeration Wrenches (2002-0123) | 8 oz. | 2.5" x 9.5" x 1" | | | |

CUSTOMER SERVICE

Contact our Customer Service Department by phone, fax or e-mail. Your call will be answered by friendly, knowledgeable professionals Monday through Friday between 8 a.m. and 5 p.m. (EST). If you call during off-hours or if we are busy helping other customers, we encourage you to leave a message and we will return your call as quickly as possible. Please contact Bacharach according to your location and needs:

USA

To place orders or request a quotation:

Phone: 1-800-736-4666 (press 1 at prompt)

Fax: 724-334-5001

E-Mail: Help@MyBacharach.com

For repair or service questions or to request an RMA#:

Phone: 1-800-736-4666 (press 2 at prompt)

Fax: 724-334-5704

E-Mail: Help@MyBacharach.com

For technical inquiries:

Phone: 1-800-736-4666 (press 1 at prompt)

Fax: 724-334-5001

E-Mail: Help@MyBacharach.com

CANADA

For all inquiries:

Phone: 1-800-328-5217 (toll-free in Canada)

Fax: 905-470-8963

E-Mail: bachcan@idirect.com

MEXICO

For all inquiries:

Phone: +52-55-56-34-77-40/41

Fax: +52-55-56-34-77-38

E-Mail: Bacharach@prodigy.net.mx

OUTSIDE OF NORTH AMERICA

To find a local distributor:

Phone: +1-724-334-5000

Fax: +1-724-334-5705

E-Mail: Help@MyBacharach.com

REPRESENTATIVES AND DISTRIBUTORS

Bacharach has a worldwide network of partners anxious to handle your needs. Please contact Customer Service or go to www.MyBacharach.com to find a representative serving your local area.

PRICES AND TERMS

Prices are subject to change without notice. Terms of payment are Net 30 Days with established credit (FOB Factory). The minimum order requirement is \$50.00 USD net. We also accept American Express, Visa, Mastercard and Discover or prepaid orders. Please see the Standard Terms and Conditions found at www.MyBacharach.com.

GOVERNMENT CUSTOMERS

Bacharach has been granted GSA Contract #GS-24F-1104B for Federal Supply Schedule 66. Product information is available in the GSA Advantage! Electronic Catalog on www.gsadvantage.gov.

WARRANTY

Bacharach warrants all parts and components according to our standard Terms and Conditions, with provisions according to product warranties stated in the specific product Operating Instructions. Please complete the warranty registration card included with each instrument (return postage paid in USA), or complete the Warranty Registration Form found online at www.MyBacharach.com/warranty-registration.htm.

RETURNS

All sales are considered final upon delivery by Bacharach to the initial carrier. Returns will be accepted only according to the Terms and Conditions with a Return Goods Authorization number (RGA#) issued by Bacharach.

SERVICE AND REPAIR

All service and repair of Bacharach equipment must be completed by an Authorized Service Center to uphold the Warranty. A Return Material Authorization number (RMA#) is required for all service and repair. For additional information please go to www.MyBacharach.com/support.htm or contact the Repair Department.

DESIGN CHANGES

Due to continuing improvements in design, some items may differ slightly from the description and photographs in the literature. All specifications are subject to change without notice. If you have product suggestions, please contact the Marketing Department via e-mail at Marketing@MyBacharach.com.



U.S.A.

Bacharach World Headquarters

621 Hunt Valley Circle
New Kensington, PA 15068-7074
Toll Free: 1-800-736-4666
Tel.: (724) 334-5000
Fax: (724) 334-5001
www.MyBacharach.com

Bacharach Service Center - Pennsylvania

621 Hunt Valley Circle
New Kensington, PA 15068-7074
Tel.: (724) 334-5051
Fax: (724) 334-5704
Email: help@MyBacharach.com

INTERNATIONAL

Bacharach de México S.de R. L. de C.V.

Sales/Service Center
Playa Regatas No. 473 Tercer Piso
Col. Militar Marte
Delegación Iztacalco, 08830
México D.F., México
Tels.: +52-55-56-34-77-40/41
Fax: +52-55-56-34-77-38
Email: bacharach@prodigy.net.mx

APL Asia

11/103-4 M.5 Lamlukka Rd.,
Lamlukka, Pathumthani 12130
Thailand
Tel: +66 662-995-441-3
Fax: +66 662-995-4464
www.bacharach-thailand.com

Bacharach Europe

Ninaberlann 83
7447 AC Hellendoorn
The Netherlands
Tel: +31 548 659065
Fax: +31 548 659010
E-mail: info@bacharacheurope.eu
www.bacharacheurope.eu

PREMAC S.A.

Jefe de Linea Bacharach
Medellin, Columbia
Tel: +57 (4) 372 1844 (ext. 122)
Fax: +57 (4) 373 0542
www.premac-inc.com

CANADA

Bacharach of Canada

Sales/Service Center - Ontario
20 Amber Street Unit #7
Markham, Ontario L3R 9W7, Canada
Tel.: (905) 470-8985
Fax: (905) 470-8963
Toll free in Canada: 800-328-5217
Email: bachcan@idirect.com



Headquarters: 621 Hunt Valley Circle
New Kensington, Pennsylvania 15068-7074 U.S.A.
Phone: 1-800-736-4666 • www.MyBacharach.com